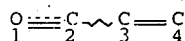


=> d que 124

L3 STR



NODE ATTRIBUTES:

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DEFAULT ECLEVEL IS LIMITED

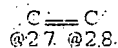
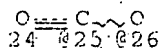
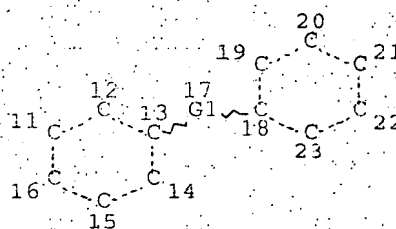
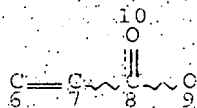
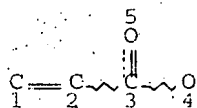
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STEREO ATTRIBUTES: NONE

L4 STR



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NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 28

STEREO ATTRIBUTES: NONE

L5 SCR 2043

L7 9925 SEA FILE=REGISTRY SSS FUL L3 AND L4 AND L5

L13 738 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND 1/NC

L14 9187 SEA FILE=REGISTRY ABB=ON PLU=ON L7 NOT L13

L15 5589 SEA FILE=HCAPLUS ABB=ON PLU=ON L14

L17 21828 SEA FILE=HCAPLUS ABB=ON PLU=ON LENSES+PFT,NT,OLD,NEW/CT

L18 5726 SEA FILE=HCAPLUS ABB=ON PLU=ON "PHOTOCHROMIC MATERIALS"+PFT,NT,OLD,NEW/CT

L19 414 SEA FILE=HCAPLUS ABB=ON PLU=ON "PHOTOCHROMIC LENSES"+PFT,NT,OLD,NEW/CT

L20 692 SEA FILE=HCAPLUS ABB=ON PLU=ON L15 AND (L17 OR L18 OR L19)

L21 156 SEA FILE=HCAPLUS ABB=ON PLU=ON L20 AND PHARM2/SC,SY

L22 61 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND THU/RL

L24 49 SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND (1840-2003)/PRY,AY

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=> d 124 1-49 ibib ed abs hitstr hitind

L24 ANSWER 1 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:1037058 HCAPLUS Full-text

DOCUMENT NUMBER: 142:23644

TITLE: (meth)acrylic ester compounds for dental materials
and optical parts with good curability,
transparency, roentgenograph stability, and
flexural strength, and low shrinkageINVENTOR(S): Otsuji, Atsuo; Takagi, Masatoshi; Higuchi,
Chojiro; Nagatomo, Akinori; Suesugi, Kouji; Toida,
Tetsuya; Honda, Narimichi

PATENT ASSIGNEE(S): Mitsui Chemicals, Inc., Japan

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004103949	A1	20041202	WO 2004-JP7327	20040521

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CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, GR, GU, HK, HU, ID, IL, IN, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW,
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ,
DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL,
PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG

EP 1627867	A1	20060222	EP 2004-734424	20040521
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US 2007078198	A1	20070405	US 2005-557882	20051122
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PRIORITY APPLN. INFO:			JP 2003-145616	A	20030523
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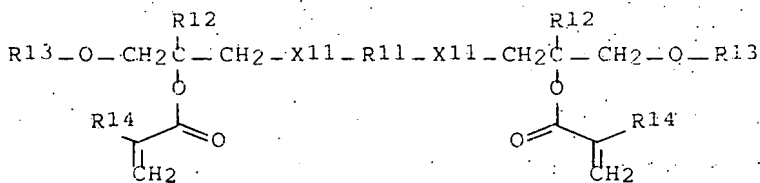
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OTHER SOURCE(S): MARPAT 142:23644

ED. Entered STN: 03 Dec 2004

GI



I

AB The present invention relates to (meth)acrylic ester compds. I, wherein R11 = divalent aromatic group; R12, R14 = H or methyl; R13 = aryl; and X11 = O or S. Polymerizable compns. containing the (meth)acrylic ester compds. can be polymerized and molded in a short time by photopolymer. It gives a cured resin satisfactory in transparency, optical properties (refractive index and Abbe's number), heat resistance, mech. properties, etc. Also provided is an optical part obtained by polymerizing the polymerizable compns. Thus, 68.1 g 4-phenylphenol and 44.4 g resorcinol diglycidyl ether were reacted in the presence of sodium hydroxide, the resulting compound was reacted with 3-chloropropionyl chloride, and dehydrochlorinated to give a diacrylate monomer, 80.70 parts of which was mixed with 2,2-bis(4-methacryloyloxypolyethoxyphenyl)propane 30, camphorquinone 0.5, Et N,N-dimethylaminobenzoate 0.5, silane-treated glass comprising silicon dioxide, barium oxide, boron oxide, and aluminum oxide 400, and Aerosil R 812 silane-treated colloidal silica 20 parts and radiation-cured to give a test piece with refractive index 1.60, flexural strength 124 MPa, light transmittance 13.4%, good roentgenograph stability, and low shrinkage.

IT 799261-54-4P 799261-56-6P 799261-57-7P
799261-58-8P 799261-60-2P 799261-62-4P
799261-64-6P 799261-66-8P 799261-67-9P
799261-69-1P 799261-71-5P 799261-73-7P

(methacrylic ester compds. for dental materials and optical parts with good curability, transparency, roentgenograph stability, and flexural strength, and low shrinkage)

RN 799261-54-4 HCAPLUS

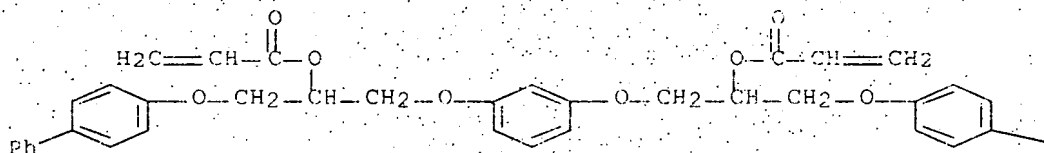
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methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX
NAME)

CM 1

CRN 799261 -42-0

CMF : C42 H38 .08

PAGE 1-A



— Ph

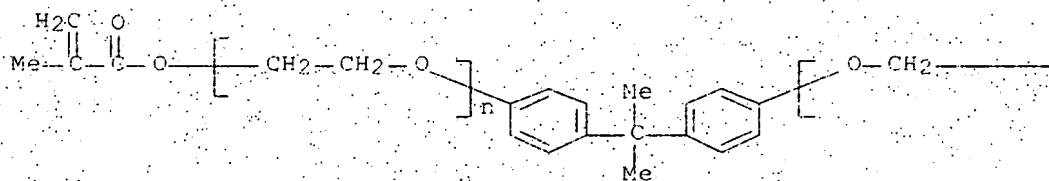
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CRN 41637-38-1

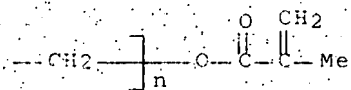
CMF (C₂ H₄ O)_n (C₂ H₄ O)_n C₂₃ H₂₄ O₄

CCI PMS

PAGE 1-A



PAGE 1-B



RN 799261-56-6 HCAPLUS

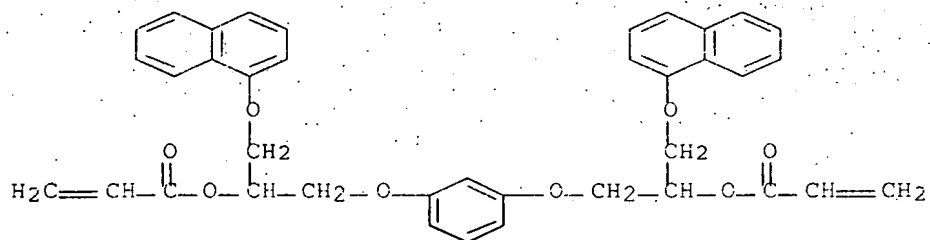
CN 2-Propenoic acid, 1,3-phenylenebis[oxy[1-[(1-naphthalenyloxy)methyl]-2,1-ethanediyl]] ester, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

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CRN 799261-43-1

CMF C₃₈ H₃₄ O₈

10/549,696

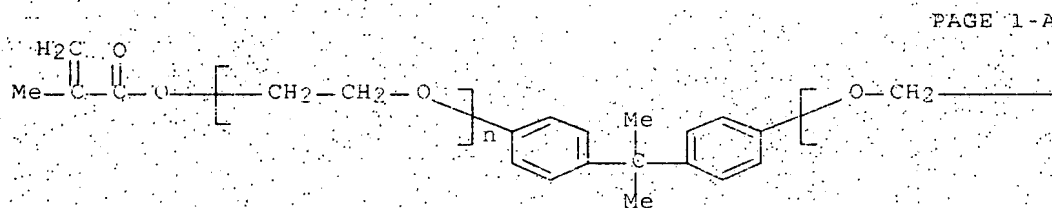


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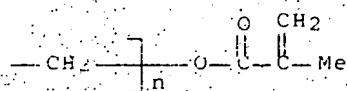
CRN 41637-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS



PAGE 1-A



PAGE 1-B

RN 799261-57-7 HCAPLUS

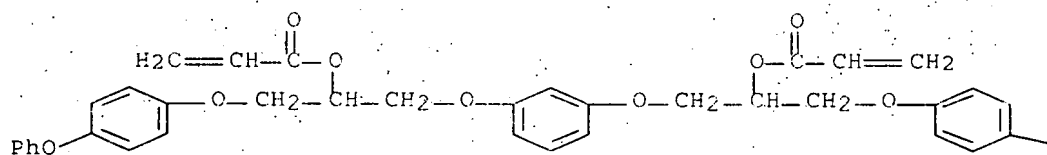
CM 2-Propenoic acid, 1,3-phenylenebis[oxy[1-[(4-phenoxyphenoxy)methyl]-2,1-ethanediyl]] ester, polymer with α,α' -[1-methylethylidene]di-4,1-phenylene[bis[o-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)]] (9CI) (CA INDEX NAME)

CM 1

CRN 799261-46-4

CMF C42 H38 O10

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PAGE 1-B

-OPh

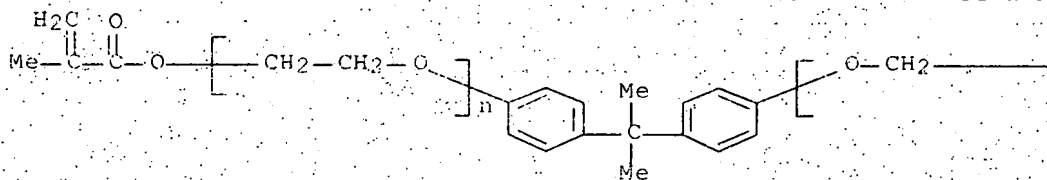
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CRN 41637-38-1

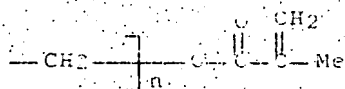
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1-B



RN 799261-58-8 HCAPLUS

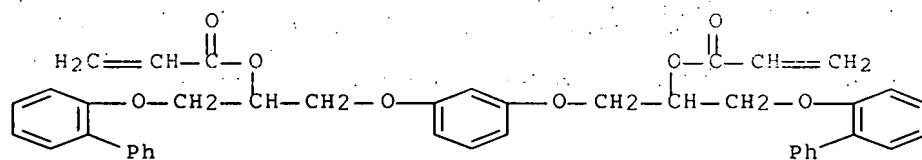
CN 2-Propenoic acid, 1,3-phenylenebis[oxy[1-[[[1,1'-biphenyl]-2-yl]oxy)methyl]-2,1-ethanediyl]] ester, polymer with α, α' -[[1-methylethylidene]di-4,1-phenylene]bis[o-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

10/549,696

CRN 799261-45-3

CMF C42 H38 O8

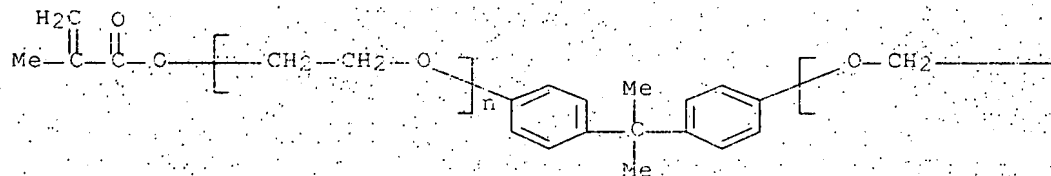


CM 2

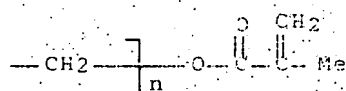
CRN 41637-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS



PAGE 1-A



PAGE 1-B

RN 799261-60-2 HCAPLUS

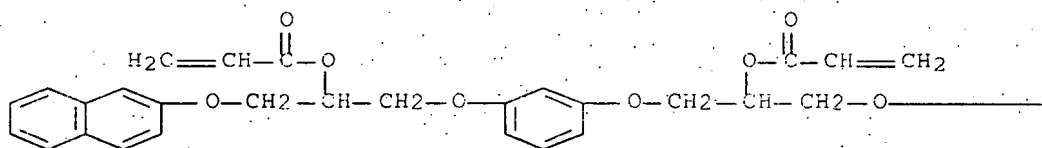
CN 2-Propenoic acid, 1,3-phenylenebis[oxy[1-[(2-naphthalenyloxy)methyl]-2,1-ethanediyl]] ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy-1,2-ethanediyl]] (9CI) (CA INDEX NAME)

CM 1

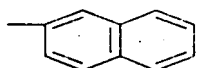
CRN 799261-44-2

CMF C38 H34 O8

PAGE 1-A



PAGE 1-B



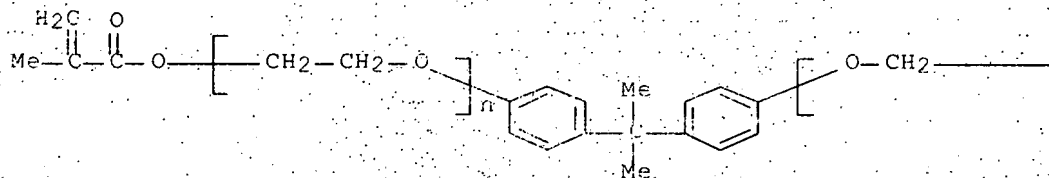
CM 2

CRN 41637-38-1

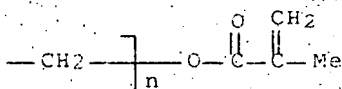
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1-B



RN 799261-62-4 HCAPLUS

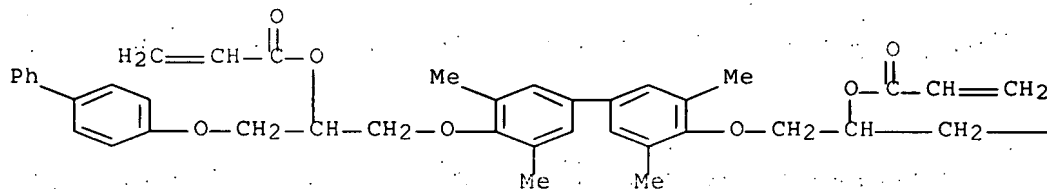
CN 2-Propenoic acid, (2,3',5,5'-tetramethyl[1,1'-biphenyl]-4,4'-diyl)bis[oxy[1-[[[1,1'-biphenyl]-4-yloxy)methyl]-2,1-ethanediyl]] ester, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[α -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

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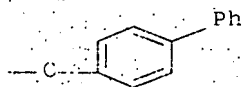
CRN 799261-47-5

CMF C52 H50 O8

PAGE 1-A



PAGE 1-B



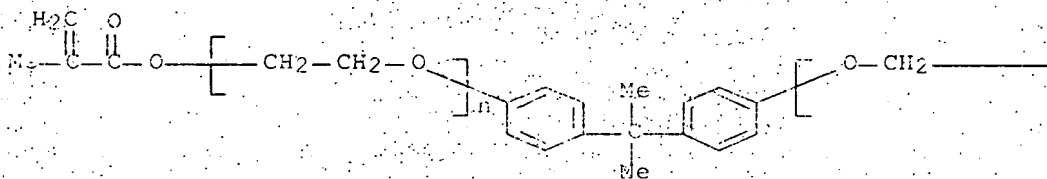
CM 2

CRN 41637-38-1

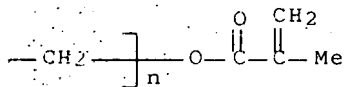
CMF (C2 H4 O)n (C23 H24 O4)n

CCI PMS

PAGE 1-A



PAGE 1-B



RN 799261-64-6 HCAPLUS

CN 2-Propenoic acid, (3,3',5,5'-tetramethyl[1,1'-biphenyl]-4,4'-diyl)bis[oxy[1-[[[1,1'-biphenyl]-2-yloxy)methyl]-2,1-ethanediyl]] ester, polymer with α,α' -[(1-methylethylidene)di-4,1-

10/549,696

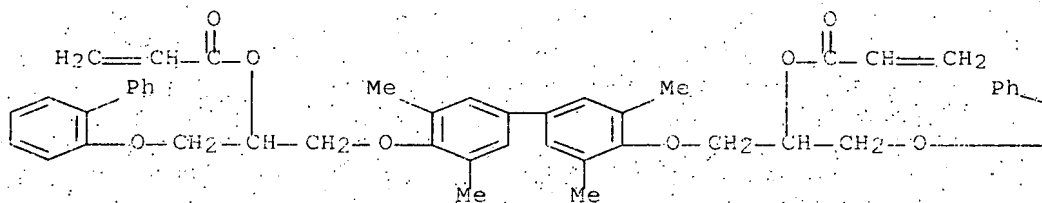
phenylene]bis[ω-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

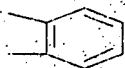
CRN 799261-48-6

CMF C52 H50 O8

PAGE 1-A



PAGE 1-B



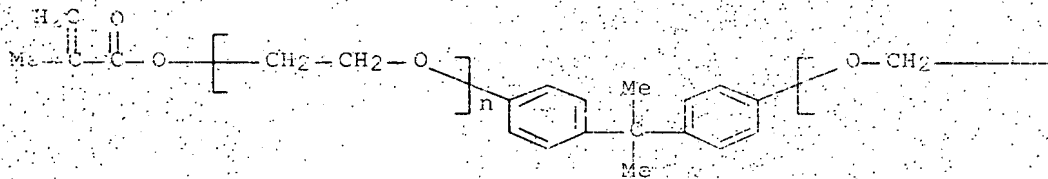
CM 2

CRN 41637-38-1

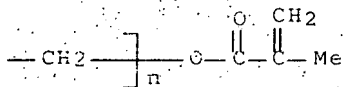
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1-B

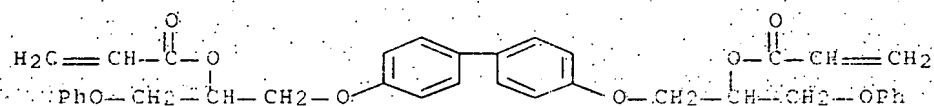


RN 799261-66-8 HCAPLUS
 CN 2-Propenoic acid, [1,1'-biphenyl]-4,4'-diylbis[oxy[1-(phenoxyethyl)-2,1-ethanediyl]] ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

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CRN 799261-49-7

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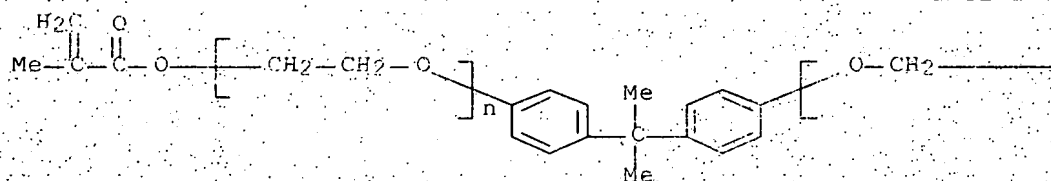


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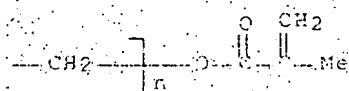
CRN 41537-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS



PAGE 1-A

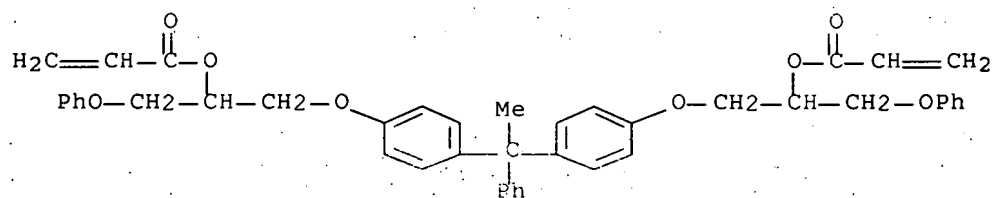


PAGE 1-B

RN 799261-67-9 HCAPLUS
 CN 2-Propenoic acid, (1-methylethylidene)bis[4,1-phenyleneoxy[1-(phenoxyethyl)-2,1-ethanediyl]] ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

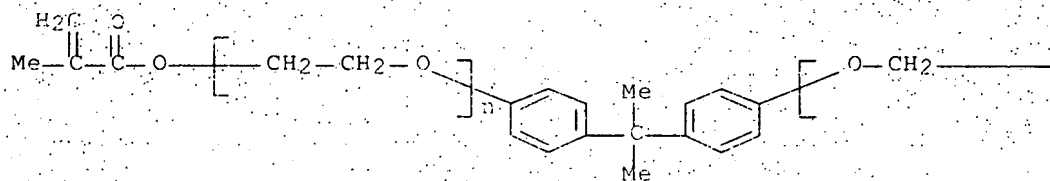
CM 1

CRN 799261-52-2
CMF C44 H42 O8

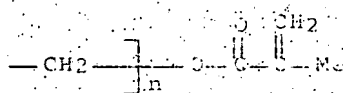


CM 2

CRN 41637-38-1
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4
CCI PMS



PAGE 1-A



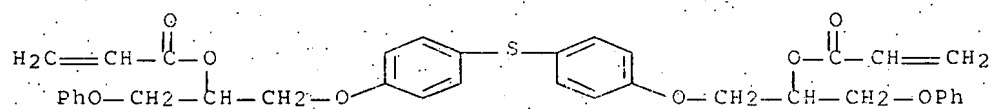
PAGE 1-B

RN 799261-69-1 HCAPLUS

CN 2-Propenoic acid, thio-bis[4,1-phenyleneoxy[1-(phenoxy-methyl)-2,1-ethanedithyl]]-ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanedithyl)] (9CI) (CA INDEX NAME)

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CRN 799261-50-0
CMF C36 H34 O8 S

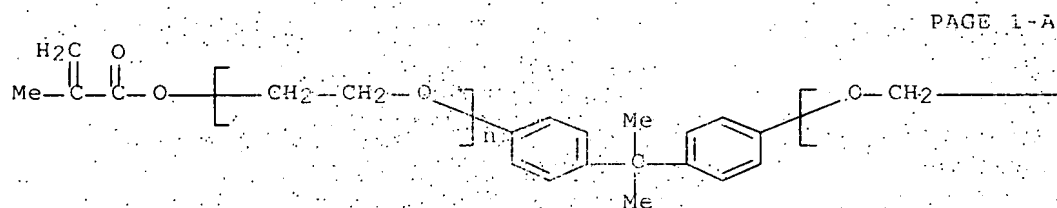


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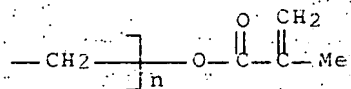
CRN 41637-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS



PAGE 1-B



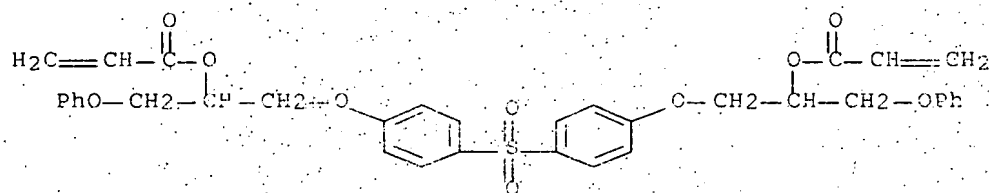
RN 799261-71-5 HCAPLUS

CN 2-Propenoic acid, sulfonylbis[4,1-phenyleneoxy[1-(phenoxy-methyl)-2,1-ethanediyl]] ester, polymer with α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 799261-51-1

CMF C36 H34 O10 S



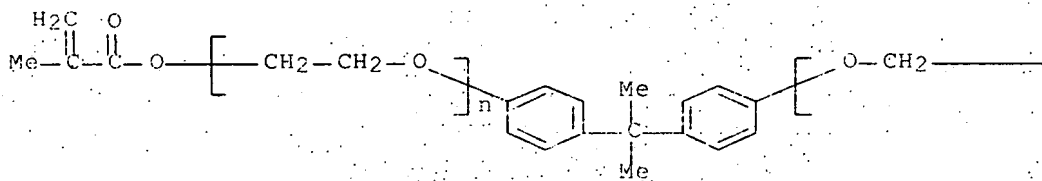
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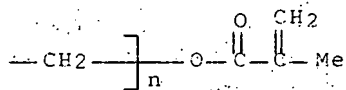
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CCI PMS

PAGE 1-A



PAGE 1-B



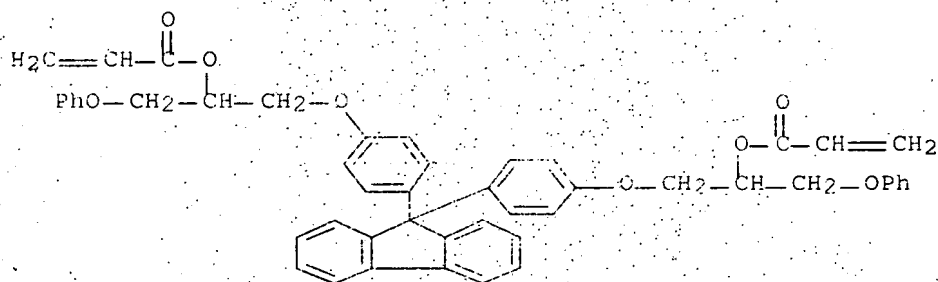
RN 799261-73-7 HCAPLUS

CN 2-Propenoic acid, 9H-fluoren-9-ylidenebis[4,1-phenyleneoxy[1-(phenoxymethyl)-2,1-ethanediyl]] ester, polymer with α, α' - [(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 799261-53-3

CMF C49 H42 O8



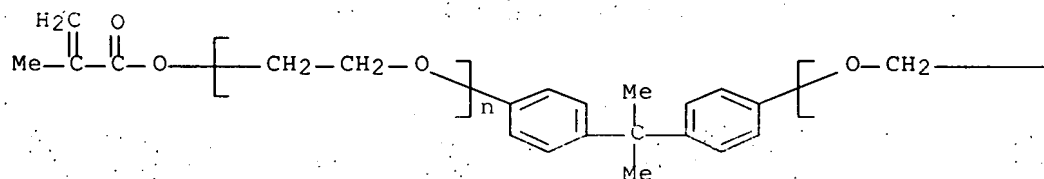
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CRN 41637-38-1

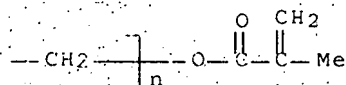
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1-B



- IC ICM C07C069-54
ICS C07C043-23; C07C069-63; C07C323-20; C07C317-22; C08F020-30;
A61C013-087; G02B001-04
- CC 35-2 (Chemistry of Synthetic High Polymers).
Section cross-reference(s): 38, 63, 73
- IT Dental materials and appliances
Lenses
Optical instruments
Optical materials
Transparent materials
(methacrylic ester compds. for dental materials and optical parts
with good curability, transparency, roentgenograph stability, and
flexural strength, and low shrinkage)
- IT 799261-54-4P 799261-55-5P 799261-56-6P
799261-57-7P 799261-58-8P 799261-60-2P
799261-62-4P 799261-64-6P 799261-66-5P
799261-67-9P 799261-69-1P 799261-71-5P
799261-73-7P
(methacrylic ester compds. for dental materials and optical parts
with good curability, transparency, roentgenograph stability, and
flexural strength, and low shrinkage)
- REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L24 ANSWER 2 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:799609 HCAPLUS Full-text

DOCUMENT NUMBER: 141:320144

TITLE: Polymerization curable compositions for
photochromic lenses

INVENTOR(S): Takenaka, Junji; Nagoh, Mironobu; Momoda, Junji

PATENT ASSIGNEE(S): Tokuyama Corporation, Japan

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004083268	A1	20040930	WO 2004-JP3539	20040317

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ED Entered STN: 30 Sep 2004

AB Disclosed are a polymerization curable composition which comprises a specific polyfunctionally polymerizable monomer having a mol. structure affording a polymer having a L scale Rockwell's hardness of 60 or more by homopolymer, an another specific polyfunctionally polymerizable monomer and a photochromic compound; a base material for a photochromic lens comprising the cured product from the composition; and a lens using the base material. The base material and the lens exhibit a high coloring d., a high color disappearance rate and good photochromic characteristics, and are excellent in characteristics of the base material such as hardness, heat resistance and impact resistance of a cured product, and further has such a strength (toughness) sufficient for use in a rimless spectacle. A mixture containing trimethylolpropane trimethacrylate 10, 2,2-bis(4-methacryloyloxyethoxyphenyl)propane 60, nonaethyleneglycol diacrylate 20, glycidyl methacrylate 10, chromene 1 0.04, perbutyl ND 1 parts was applied to a lens mold and thermally polymerized at 90° for 5 h. The cured material was coated with a buffer layer coating solution containing Desmodur BI-3475 and Desmophen 670BA and cured at 110° for

30 min. Then, a hard coat solution TS-56H was applied to the material and cured at 120° for 3 h to obtain a photochromic lense.

IT 765929-30-4P 765929-31-5P 765929-32-6P
765929-33-7P 765929-34-8P 765929-35-9P
765929-36-0P 765929-37-1P 765929-39-3P
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(polymerization curable compns. for photochromic lenses)

RN 765929-30-4 HCAPLUS

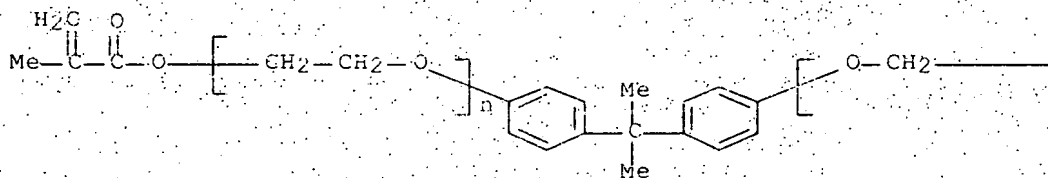
CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with (1-methylethenyl)benzene, (1-methylethenyl)benzene dimer, α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], oxiranylmethyl 2-methyl-2-propenoate, oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl) di-2-propenoate (9CI) (CA INDEX NAME)

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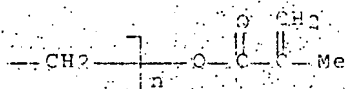
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CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS



PAGE 1-B

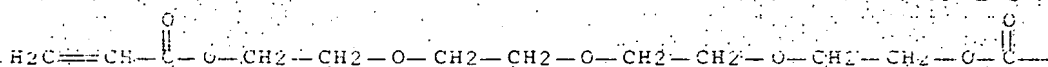


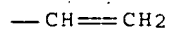
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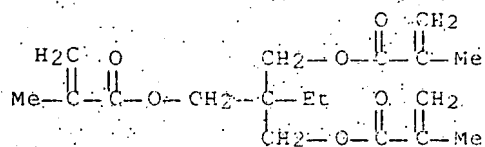
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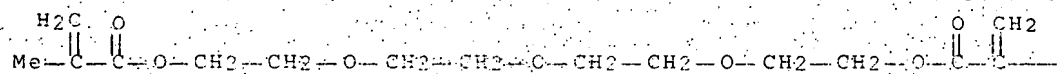
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CMF C18 H26 O6



CM: 4

CRN 109-17-1
CMF C16 H26 O7



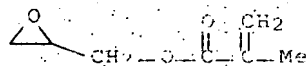
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PAGE 1 - B



CM 5

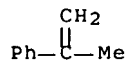
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CMF C7 H10 O3



CM 6

CRN 98-83-9

CMF C9 H10



CM 7

CRN 6144-04-3

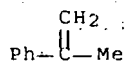
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CM 8

CRN 98-83-9

CMF C9 H10



RN 765929-31-5 HCAPLUS

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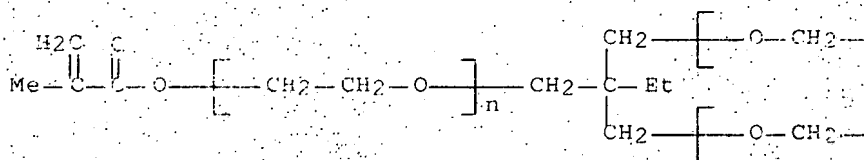
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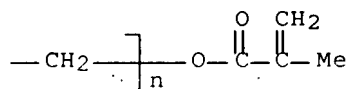
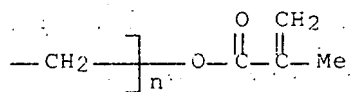
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CCI PMS

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PAGE 1-B



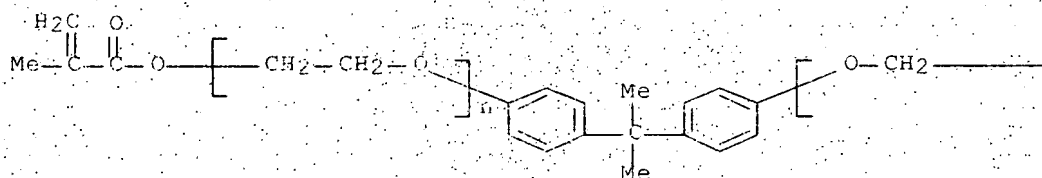
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CRN 41637-38-1

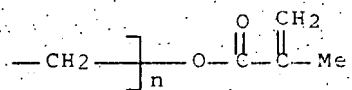
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CCI PMS

PAGE 1-A



PAGE 1-B

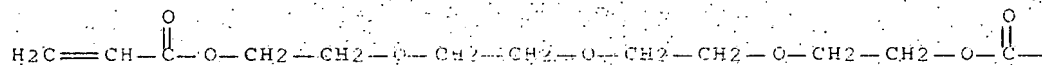


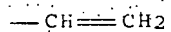
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CRN 17831-71-9

CMF C14 H22 O7

PAGE 1-A

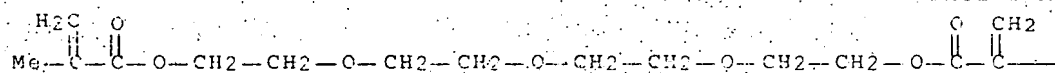




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CRN 109-17-1

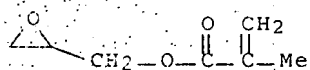
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CM 5

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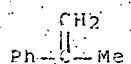
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CM 6

CRN 98-83-9

CMF C9 H10

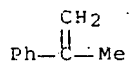


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CRN 6144-04-3
 CMF (C9 H10)2
 CCI PMS

CM 8

CRN 98-83-9
 CMF C9 H10

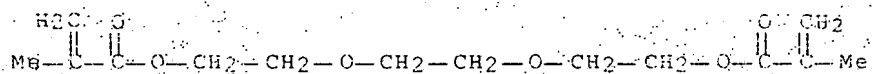


RN 765929-32-6 HCAPLUS

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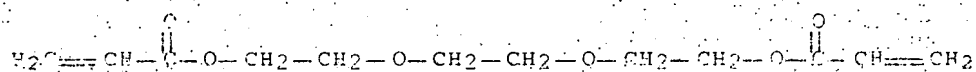
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 CCI IDS



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CM 2

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 CCI IDS



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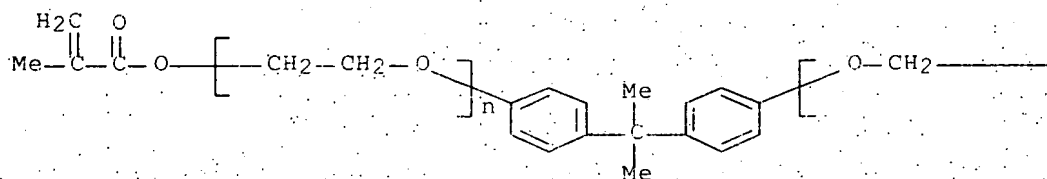
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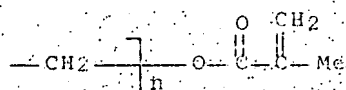
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4

CCI PMS

PAGE 1-A



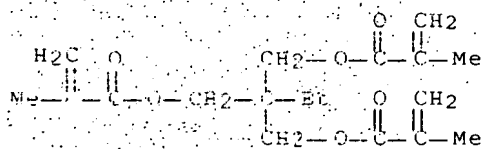
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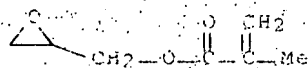
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CM 5

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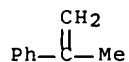
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CM 6

CRN 98-83-9

CMF . C9 H10



CM 7

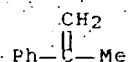
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CCI PMS

CM 8

CRN: 98-83-9

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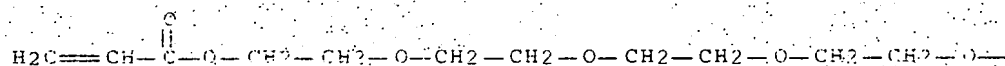
CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[2-methyl-1-oxo-2-propenyl]oxy]methyl]-1,3-propanediyl ester, polymer with (1-methylethenyl)benzene, (1-methylethenyl)benzene dimer, α, α' -[[[2-methylethylidene]di-4,1-phenylene]bis[ω -[[[2-methyl-1-oxo-2-propenyl]oxy]poly(oxy-1,2-ethanediyl)]]], 3,6,9,12,15,18,21,24-octaohexacosane-1,26-diyl di-2-propenoate, oxiranyl-methyl 2-methyl-2-propenoate and oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

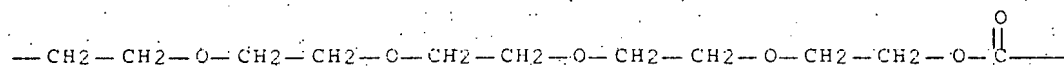
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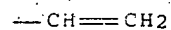
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PAGE 1-B



PAGE 1-C



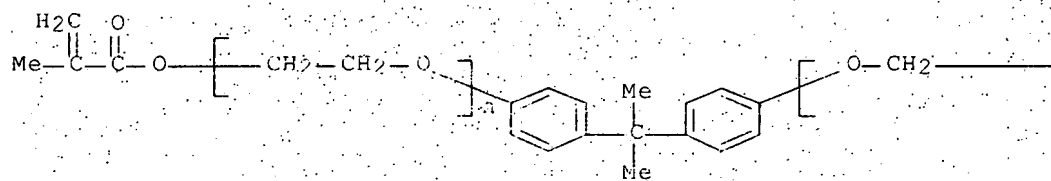
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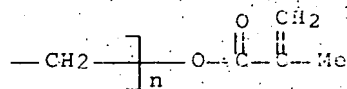
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CCI PMS

PAGE 1-A



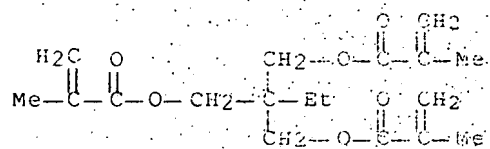
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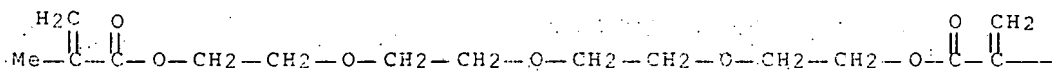


CM 4

CRN 109-17-1

CMF C16 H26 O7

PAGE 1-A



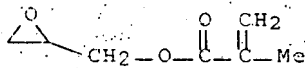
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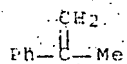
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CM 6

CRN 98-83-9

CMF C9 H10



CM 7

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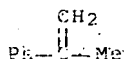
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CM 8

CRN 98-83-9

CMF C9 H10



RN 765929-34-8 HCAPLUS

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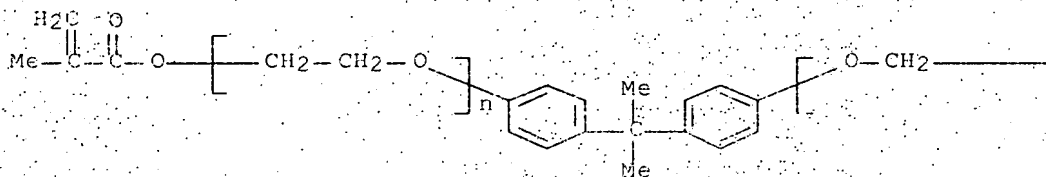
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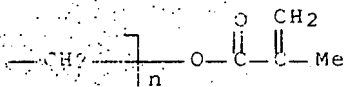
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CCI PMS

PAGE 1-A



PAGE 1-B



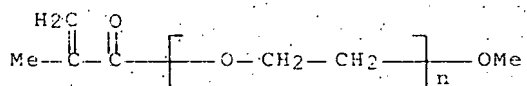
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CRN 26915-72-0

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CCI PMS

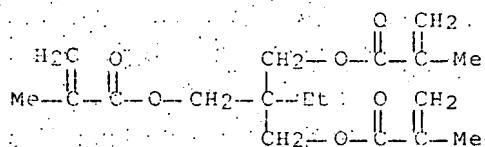
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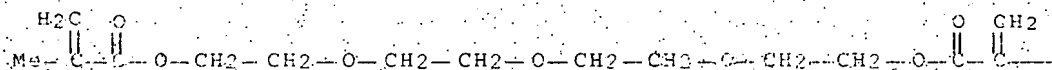
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CM 4

CRN 109-17-1

CMF C16 H26 O7



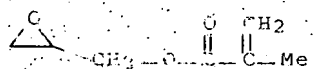
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PAGE 1-B

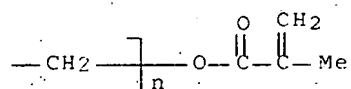


CM. 5

CRN 106-91-2

C11H10O3

PAGE 1-B

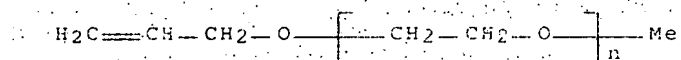


CM. 2

CRN 27252-80-8

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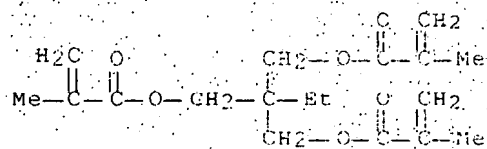
CCI PMS



CM. 3.

CRN 3290-92-4

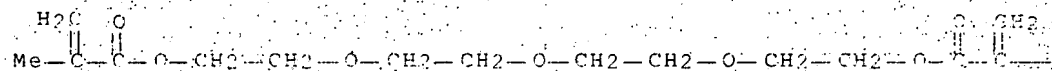
CMF C18 H26 O6



CM. 4

CRN 109-17-1

CMP C16 H26 07..



PAGE 1-A

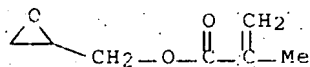
PAGE 1-B

$$\text{---Me}$$

CM 5

CRN 106-91-2

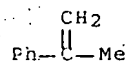
CMF C7 H10 O3



CM 6

CRN 98-83-9

CMF C9 H10



CM 7

CRN 6144-04-3

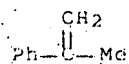
CMF (C9 H10)2

CCI PMS

CM 8

CRN 98-83-9

CMF C9 H10



RN 765929-36-0 HCAPLUS

CM 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

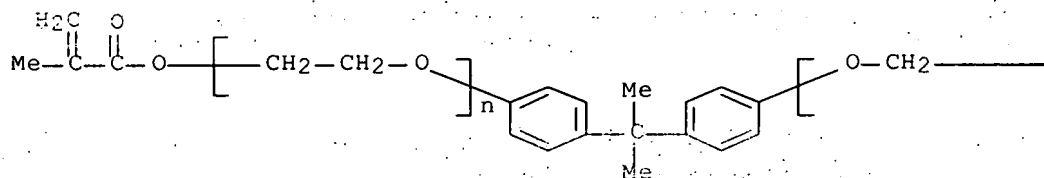
CM 1

CRN 41637-38-1

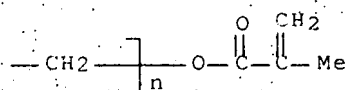
10/549,696

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A



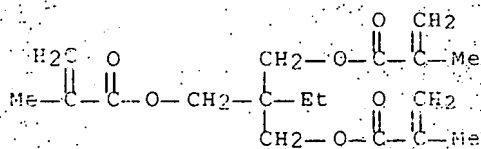
PAGE 1-B



CM 2

CRN 3290-92-4

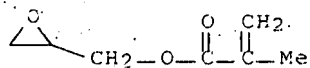
CMF C18 H26 O6



CM 3

CRN 106-91-2

CMF C7 H10 O3



RN 765929-37-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxymethyl]-1,3-propanediyl ester, polymer with Ebecryl 1830, α, α' - [(1-methylethylidene)di-4,1-phenylene]bis[ω - [(2-

methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and
 oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCI PMS, MAN

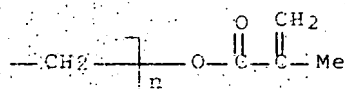
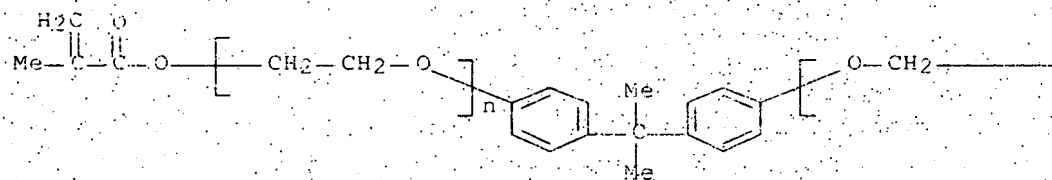
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 41637-38-1

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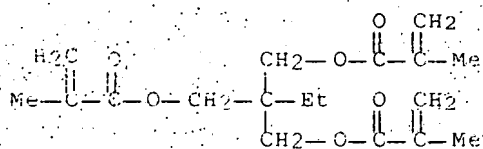
CCI PMS



CM 3

CRN 3290-92-4

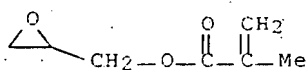
CMF C₁₈ H₂₆ O₆



CM 4

CRN 106-91-2

CMF C₇ H₁₀ O₃



RN 765929-39-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with α -hydro- ω -[(1-oxo-2-propenyl)oxy]poly[oxy(1-oxo-1,6-hexanediyl)] ester with 2,2'-[oxybis(methylene)]bis[2-ethyl-1,3-propanediol] (4:1), and α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

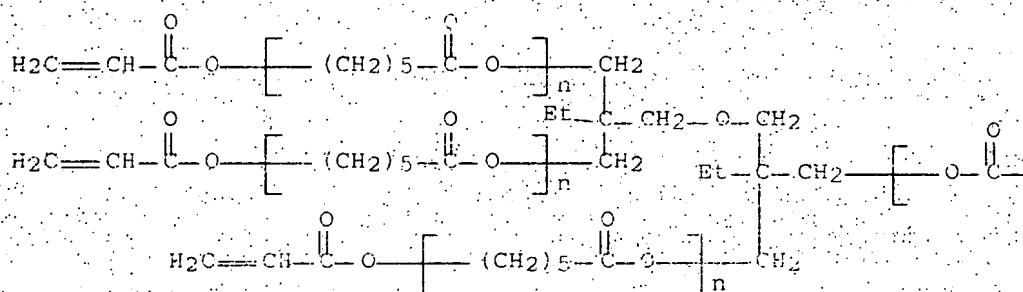
CM 1

CRN 765929-38-2

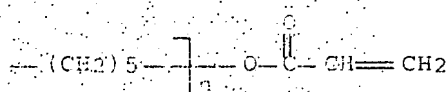
CMF (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n (C6 H10 O2)_n C24 H34 O9

CCI PMS

PAGE 1-A



PAGE 1-B



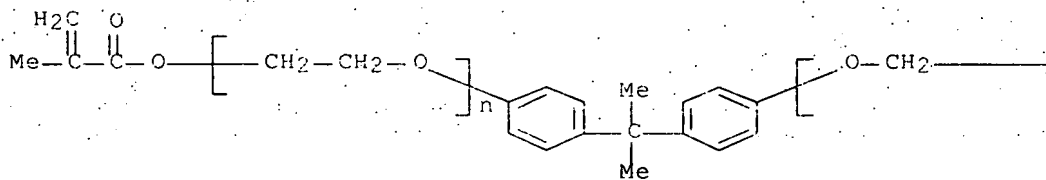
CM 2

CRN 41637-38-1

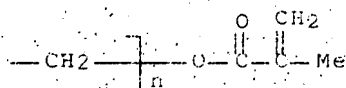
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4

CCI PMS

PAGE 1-A



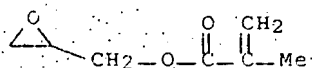
PAGE 1-B



CM 3

CRN 106-91-2

CMF C7 H10 O3



RN 765929-49-6 HCAPLUS

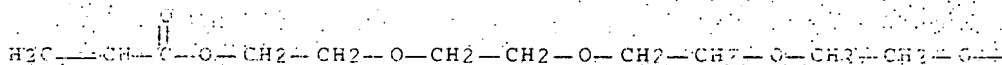
CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with α, ω -[[1-methylethylidene]di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], 3,5,9,12,15,18,21,24-octaaxahexacosane-1,26-diyl di-2-propenoate and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

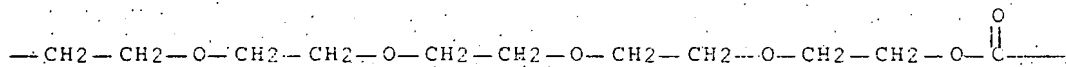
CRN 57401-53-9

CMF C24 H42 O12

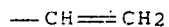
PAGE 1-A



PAGE 1 - B



PAGE 1 - C



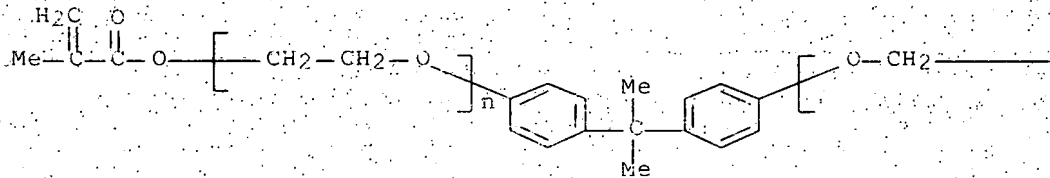
CM 2

CRN 41637-38-1

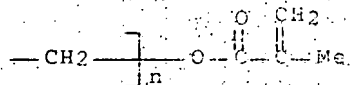
$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \quad \text{C}_2\text{H}_3\text{H}_2\text{O}_4$$

CCI PMS

PAGE 1-A



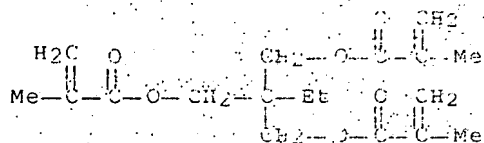
PAGE 1 B



CM . 3

CRN 3290-92-4

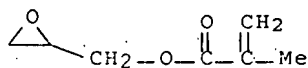
CMF - C13 H26 O6



CM 4

CRN 106-91-2

CMF C7 H10 O3



RN 767330-18-7 HCAPLUS

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CM 1

CRN 765943-91-7

CMF Unspecified

CCI PMS, MAN

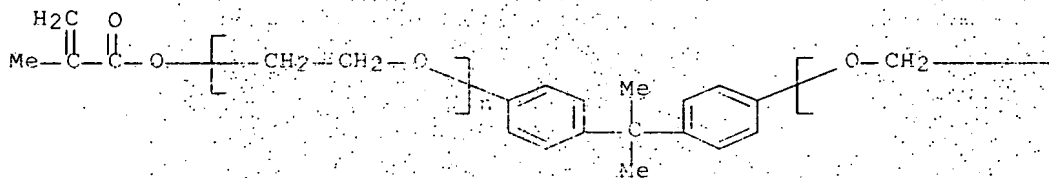
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CM 2

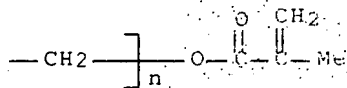
CRN 41637-38-1

CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4

CCI PMS



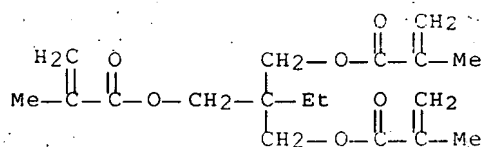
PAGE 1-A



PAGE 1-B

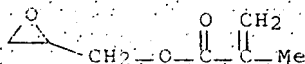
CM 3

CRN 3290-92-4
CMF C18 H26 O6



CM 4

CRN 106-91-2
CMF C7 H10 O3



IC ICM C08F220-28
ICS G02C007-10
CC 63-7 (Pharmaceuticals)
Section cross-reference(s) : 35
IT Lenses
(photochromic; polymerization curable comps. for photochromic lenses)
IT Photochromic materials
(polymerization curable comps. for photochromic lenses)
IT 765929-30-4P 765929-31-5P 765929-32-6P
765929-33-7P 765929-34-8P 765929-35-9P
765929-36-0P 765929-37-1P 765929-39-1P
765929-40-6P 767330-18-7P
(polymerization curable comps. for photochromic lenses)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:780612 HCAPLUS Full-text
DOCUMENT NUMBER: 141:278674
TITLE: Photochromic multilayer body and coating method for its production
INVENTOR(S): Izumi, Shinobu; Momoda, Junji
PATENT ASSIGNEE(S): Tokuyama Corporation, Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: P1XXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004080714	A1	20040923	WO 2004-JP3049	20040309

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2004220183	A1	20040923	AU 2004-220183	20040309
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JP 2004295114	A	20041021	JP 2004-66297	20040309
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EP 1612042	A1	20060104	EP 2004-718743	20040309
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LT, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK

US 2006263607	A1	20061123	US 2006-547316	20060530
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PRIORITY APPLN. INFO.:	JP 2003-62756	A	20030310
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WO 2004-JP3049	A	20040309
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ED Entered STN: 24 Sep 2004

AB A photochromic multilayer body (e.g., sunglass lens) comprises a base composed of a translucent thermoplastic resin such as a polycarbonate resin, a crosslinked resin layer which is formed on a surface of the base and contains 20-40 mass% of inorg. colloidal particles, and a photochromic coating layer formed on a surface of the crosslinked resin layer. Although the photochromic layer is formed by coating process, whitening or swelling of the surface of the thermoplastic resin base is suppressed in this photochromic multilayer body. Consequently, excellent optical characteristics of the base are not damaged. In addition, since the photochromic coating layer has a good adhesion property, the photochromic multilayer body is excellent in durability.

IT 521272-59-3P, Ebecryl 1830-NK Ester BPE 10-glycidyl methacrylate-NK Ester A-400-trimethylolpropane trimethacrylate copolymer

(photochromic coating, photochromic multilayer body and coating method for its production)

RN 521272-59-3 HCAPLUS

CN 3-Propenoic acid, 2-methyl-2-ethyl-2-[(2-methyl-1-oxo-2-propenyl)oxymethyl]-1,3-propanediyl ester, polymer with Ebecryl 1830, α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxypoly(oxy-1,2-ethanediyl)], oxiranylmethyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxypoly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

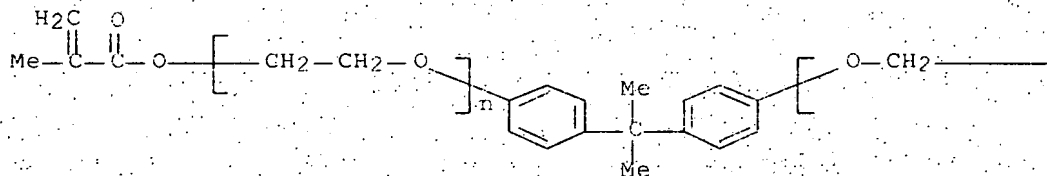
CM 2

CRN 41637-38-1

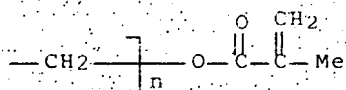
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1-B

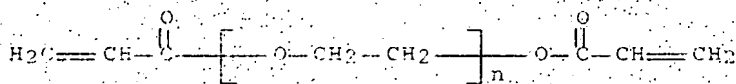


CM 3

CRN 26570-48-9

CMF (C2 H4 O)n C6 H6 O3

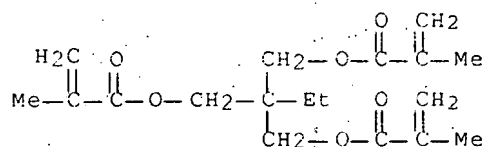
CCI PMS



CM 4

CRN 3290-92-4

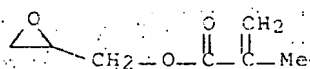
CMF C19 H26 O6



CM 5

CRN 106-91-2

CMF C7 H10 O3



IC ICM B32B027-20

ICS G02B001-10; G02B005-23; G02C007-10

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 42, 63

IT Lenses

(photochromic multilayer body and coating method for its production)

IT 521272-59-3P, Ebecryl 1830-NK Ester BPE 10-glycidyl

methacrylate-NK Ester A 400-trimethylolpropane trimethacrylate copolymer 757995-52-1P, NK Ester A 200-U 4HA copolymer

(photochromic coating; photochromic multilayer body and coating method for its production)

REFERENCE COUNT:

8

THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 2004:779274 HCAPLUS Full-text

DOCUMENT NUMBER: 141:301505

TITLE: Manufacture of UV-absorbing plastic lenses

INVENTOR(S): Iryo, Takeaki

PATENT ASSIGNEE(S): Seiko Epson Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKYYAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004264777	A	20040924	JP 2003-57507	20030304

PRIORITY APPLN. INFO.:

JP 2003-57507 20030304

ED Entered-STM: 24 Sep 2004

AB The plastic lenses (e.g., eyeglass lenses for eye protection) are manufactured by photopolymerization of compounds containing monomers 100, UV absorbers 0.1-5, and visible light-absorbing photopolymerization initiators 0.0005-5 weight parts using a light source having spectral energy distribution in which energy is concentrated within 400-450 nm. Bisphenol A diglycidyl ether dimethacrylate 40, nonabutylene glycol dimethacrylate 20, benzyl methacrylate 25, a urethane dimethacrylate (prepared from isophorone diisocyanate and 2-hydroxypropyl methacrylate) 15, 2-(3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (UV absorber) 1.0, tert-Bu peroxyisobutyrate (thermal polymerization initiator) 0.08, and tri-Et phosphite 0.2 g were stirred at room temperature, degassed, poured into a pair of molds, precured and cured by irradiation with a metal halide lamp, and annealed at 130° for 2 h to give lenses showing no defects or no peeling.

IT 357940-86-4P

(manufacture of UV-absorbing plastic lenses by photopolymerization of monomer compounds containing UV absorbers and photopolymerization initiators with specific light sources)

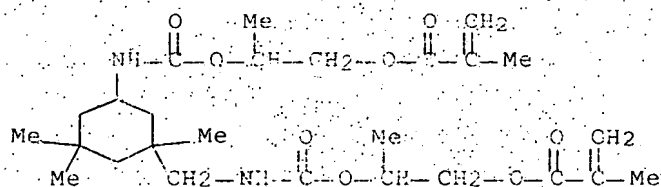
RN 357940-86-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,4-butanediyl), phenylmethyl 2-methyl-2-propenoate and 2-[[[[[1,3,3-trimethyl-5-[[[1-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 76701-94-5

CMF C26 H42 N2 O8

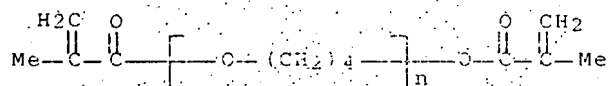


CM 2

CRN 28883-57-0

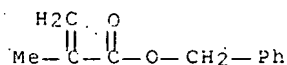
CMF (C4 H8 O)_n C8 H10 O3

CCI PMS



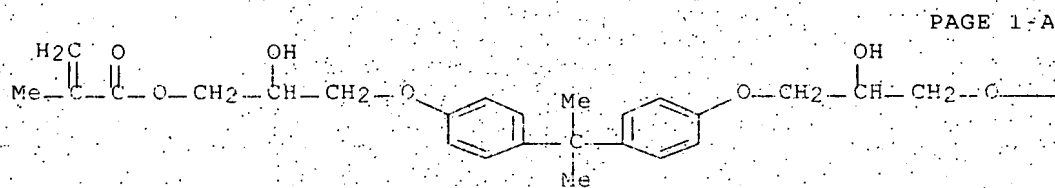
CM 3

CRN 2495-37-6
CMF C11 H12 O2

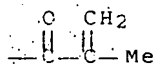


CM 4

CRN 1565-94-2
CMF C29 H36 O8



PAGE 1-A



PAGE 1 - 2

IC ICM G02B003-00
ICS C08F002-01; C08F002-44; G02B001-04; G02C007-02
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 37, 38, 73
IT Eyeglass lenses
Light sources
Molding of plastics and rubbers
UV stabilizers
(manufacture of UV-absorbing plastic lenses by photopolymer. of monomer compns. containing UV absorbers and photopolymer. initiators with specific light sources)
IT 2495-37-6DP, Benzyl methacrylate, polymers with sulfur-containing urethane vinyl compds. and methacrylates 3634-83-1DP, m-Xylylene diisocyanate, reaction products with (vinylbenzylthio)ethanol, polymers with methacrylates 56361-55-8DP, 2,2-Bis(4-acryloyloxydiethoxyphenyl)propane, polymers with sulfur-containing urethane vinyl compds. and methacrylates 112503-98-7DP, polymers with sulfur-containing urethane vinyl compds. and methacrylates 129509-07-5DP, reaction products with xylylene diisocyanate, polymers with methacrylates 129509-08-6DP, reaction products with xylylene diisocyanate, polymers with methacrylates 357940-86-4P
(manufacture of UV-absorbing plastic lenses by photopolymer. of monomer compns. containing UV absorbers and photopolymer. initiators with

specific light sources)

L24 ANSWER 5 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:651994 HCAPLUS Full-text
 DOCUMENT NUMBER: 141:179709
 TITLE: Transparent optical materials having selective
 light absorption property, and manufacture thereof
 INVENTOR(S): Torii, Toshihide; Fujio, Yoshiharu
 PATENT ASSIGNEE(S): Hopnic Research Institute, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004226913	A	20040812	JP 2003-17645	20030127
			<--	
JP 3843394	B2	20061108		
PRIORITY APPLN. INFO.			JP 2003-17645	20030127
			<--	

ED Entered STN: 13 Aug 2004

AB The invention relates to a transparent optical material having selective light absorption property suitable for use in ophthalmic lenses, etc., wherein the material consists of a copolymer obtained from a monomer mixture containing (1) (meth)acrylate rare earth metal salt 0.2-40, (2) hydroxyalkyl(meth)acrylate monoester with phthalic acid, hexahydrophthalic acid and/or alkanedicarboxylic acid 4-40, (3) polymerizable monomers 30-90 %. A transparent plate was prepared from neodymium methacrylate 10, methacryloyloxyethyl phthalate 20, Me methacrylate 30, diethyleneglycol dimethacrylate 40 %.

IT 735308-14-2P 735308-16-4P 735308-18-6P
 735308-20-0P 735308-22-2P 735308-24-4P
 735308-27-7P 735308-29-9P 735315-25-0P

(transparent optical materials obtained from (meth)acrylate rare earth salt and other monomers)

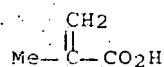
RN 735308-14-2 HCAPLUS

CM 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4/1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-22-2

CMF C4 H6 O2 1/3 Nd

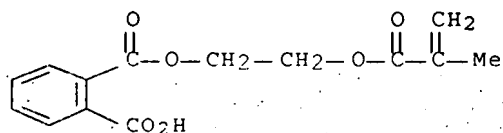


● 1/3 Nd(III)

CM 2

CRN 27697-00-3

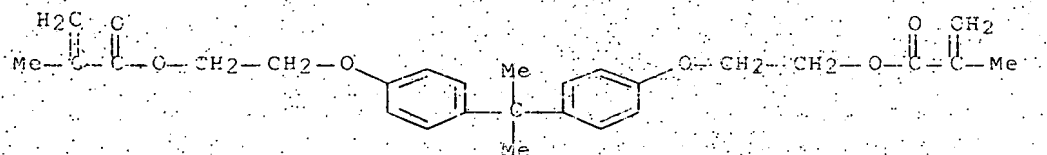
CMF C14 H14 O6



CM 3

CRN 24448-20-2

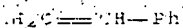
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C8 H8



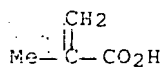
RN 735308-16-4 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with erbium(3+) tris(2-methyl-2-propenoate), ethenylbenzene and (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-29-9

CMF C4 H6 O2 1/3 Er

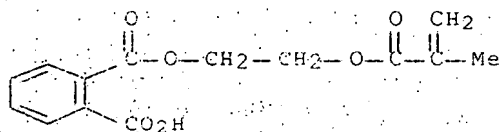


1/3 Er(III)

CM 2

CRN 27697-00-3

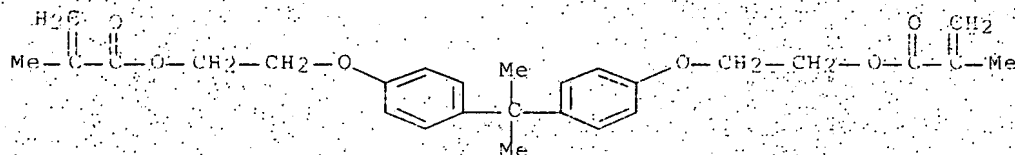
CMF C14 H14 O6



CM 3

CRN 24448-20-2

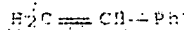
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C5 H8



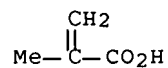
PN 735308-18-6 HCAELUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and praseodymium(3+) tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-21-1

CMF C4 H6 O2 1/3 Pr

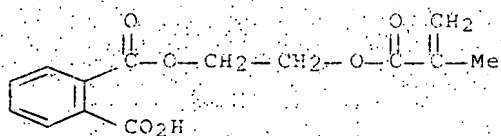


1/3 Pr(III)

CM 2

CRN 27697-00-3

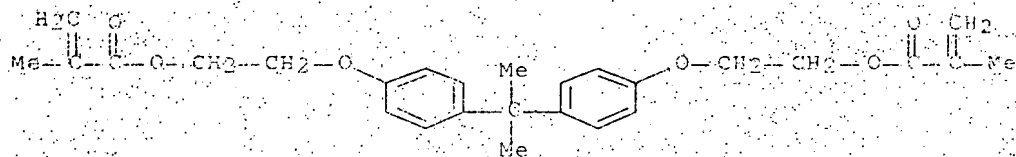
CMF C14 H14 O6



CM 3

CRN 24448-20-2

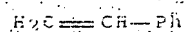
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C8 H8



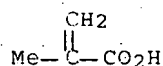
RN 735308-20-0 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-22-2

CMF C4 H6 O2 1/3 Nd

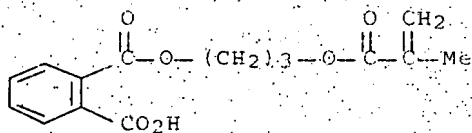


1/3 Nd(III).

CM 2

CRN 52848-10-2

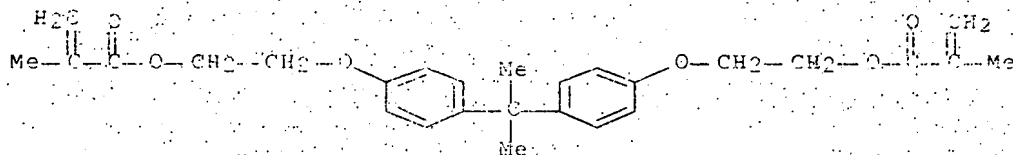
CMF C15 H16 O6



CM 3

CRN 24448-20-2

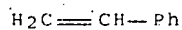
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C8 H8



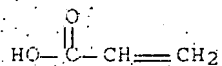
RN 735308-22-2 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) tri-2-propenoate (9CI)
(CA INDEX NAME)

CM 1

CRN 36451-03-3

CMF C3 H4 O2 1/3 Nd

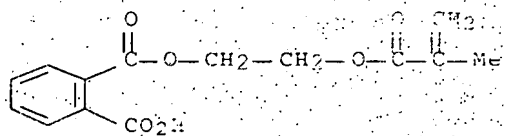


1/3 Nd(III)

CM 2

CRN 27697-00-3

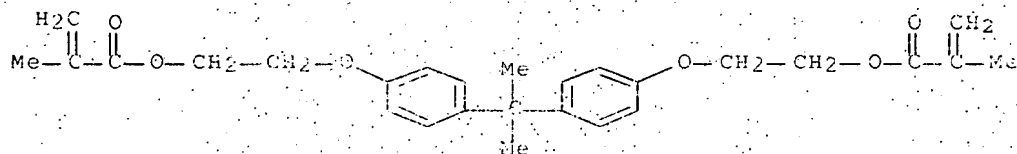
CMF C14 H14 O6



CM 3

CRN 24448-Z0-2

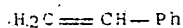
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C8 H8



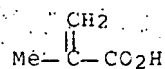
RN 735308-24-4 HCAPLUS

CN 1,2-Benzenedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with erbium(3+) tris(2-methyl-2-propenoate), ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-29-9

CMF C4 H6 O2 1/3 Er

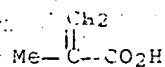


1/3 Er(III)

CM 2

CRN 79718-22-2

CMF C4 H6 O2 1/3 Nd

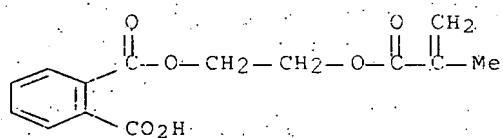


1/3 Nd(III)

CM 3

CRN 27697-00-3

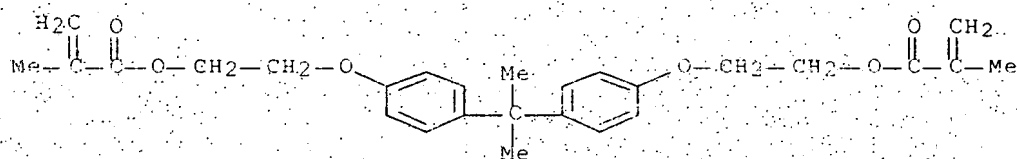
CMF C14 H14 O6



CM 4

CRN 24448-20-2

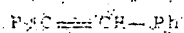
CMF C27 H32 O6



CM 5

CRN 100-42-5

CMF C8 H8



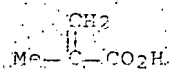
RN 735308-27-7 HCAPLUS

CN Butanedioic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) triis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-22-2

CMF C4 H6 O2 1/3 Nd

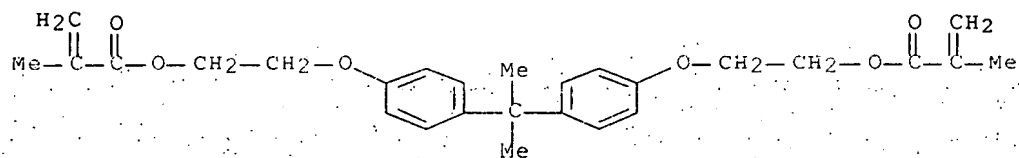


1/3 Nd(III)

CM 2

CRN 24448-20-2

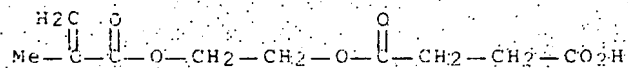
CMF C27 H32 O6



CM 3

CRN 20882-04-6

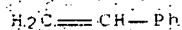
CMF C10 H14 O6



CM 4

CRN 100-42-5

CMF C8 H8



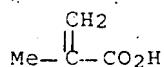
RN 735308-29-9 HCAPLUS

CM Butanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with ethenylbenzene, (1-methylethylidene)bis(4,4'-phenyleneoxy-2,1'-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) tris(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 79718-22-2

CMF C4 H6 O2 1/3 Nd

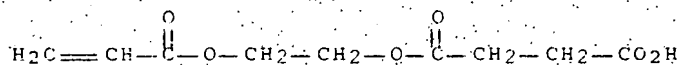


● 1/3. Nd(III)

CM 2

CRN 50940-49-3

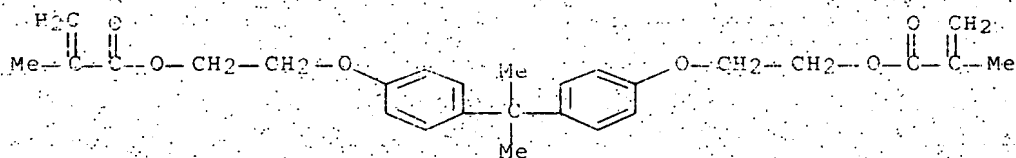
CMF C9 H12 O6



CM 3

CRN 24448-20-2

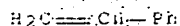
CMF C27 H32 O6



CM 4

CRN 100-42-5

CMF C8 H8



RN 735315-25-0 HCAPLUS

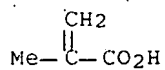
CN 1,2 Cyclohexanedicarboxylic acid, methyl-, monoester with 1,2 propanediol mono(2-methyl-2-propenoate), polymer with ethenylbenzene, (1 methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and neodymium(3+) bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

10/549,696

CRN 79718-22-2

CMF C4 H6 O2 . 1/3 Nd

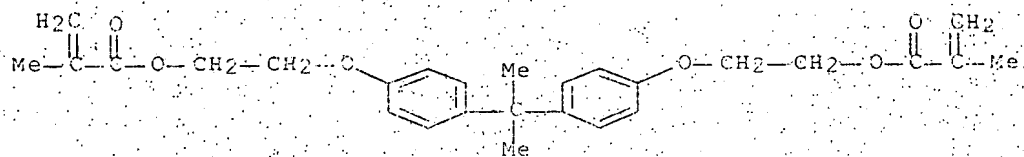


●1/3 Nd(III)

CM 2

·CRN · 24448-20-2

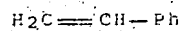
CMF C27 H32 O6



CM. 3

CRN: 100-42-5

CMF C8 H8



CM 4

CPN 735315-24-9

CMF : 676 M24 06

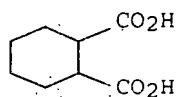
CCI . IDS

CM 5

GRN 82476-50-4

CMF CS 1114 01

CCT . IDS.

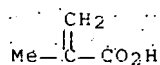


D1—Me

CM 6

CRN 79-41-4

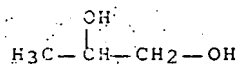
CMF C4 H6 O2



CM 7

CRN 57-55-6

CMF C3 H8 O2



IC ICM G02B005-22
ICS C08F002-02; C08F220-12; G02B001-04
CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38

IT Eyeglass lenses

Human

Lenses

Medical goods

Optical materials

(transparent optical materials obtained from (meth)acrylate rare earth salt and other monomers)

IT 735308-10-8P 735308-12-0P 735308-14-2P
735308-16-4P 735308-18-6P 735308-20-0P
735308-22-2P 735308-24-4P 735308-27-7P
735308-29-9P 735315-25-0P

(transparent optical materials obtained from (meth)acrylate rare earth salt and other monomers)

L24 ANSWER 6 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:493798 HCAPLUS Full-text
DOCUMENT NUMBER: 141:59776
TITLE: Coating composition and optical article
INVENTOR(S): Mori, Katsuhiko; Momoda, Junji

PATENT ASSIGNEE(S): Tokuyama Corporation, Japan
 SOURCE: PCT Int. Appl., 100 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050775	A1	20040617	WO 2003-JP15558	20031204

W: AU, JP, US

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

AU 2003288992	A1	20040623	AU 2003-288992	20031204
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EP 1568739	A1	20050931	EP 2003-778751	20031204
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

US 2006071203	A1	20060406	US 2005-529462	20050328
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PRIORITY APPLN. INFO.: JP 2002-354291 A 20021205

JP 2002-372835 A 20021224

WO 2003-JP15558 W 20031204

ED Entered STN: 18 Jun 2004

AB Disclosed is a coating composition which, when applied to a substrate such as a plastic lens, can form on the substrate surface a photochromic coating layer having satisfactory photochromism and excellent adhesion to the substrate. The composition contains as monomer ingredients, for example, 0.1-20 % monomer having a group which generates a silanol group upon hydrolysis, such as γ -methacryloyloxypropyltrimethoxy silane and 0.1-50 % monomer having at least one oxycarbonyl group per mol. A maleimide compound may be further contained as other monomer ingredient. More desirably, the composition contains an amine compound. A coating composition containing γ -methacryloyloxypropyltrimethoxysilane, trimethylolpropanetrimethacrylate, polyethylene glycol diacrylate, urethane oligomer hexaacrylate (U-6HA), glycidyl methacrylate, hydroxyphenylacetic acid neopentylglycol diacrylate, N-methyldiethanolamine, a polymerization initiator, a stabilizer, and a chromene compound, was formulated, and applied on a thiourethane-based plastic lens.

IT 705968-00-9P 705968-01-0P 705968-02-1P
 705968-03-2P 705968-04-3P 705968-05-4P
 705968-06-5P 705968-07-6P 705968-08-7P
 705968-09-8P 705968-10-1P 705968-11-2P
 705968-12-3P 705968-13-4P 705968-14-5P
 705968-17-8P 705968-18-9P 705968-19-0P
 705968-20-3P 705968-21-4P 705968-32-7P

(photochromic coating composition for optical article)

RN 705968-00-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[2-methyl-1-oxo-2-propenyl]oxy]methyl]-1,3-propanediyl ester, polymer with 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], oxiranylmethyl 2-methyl-2-propenoate,

α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI)
(CA INDEX NAME)

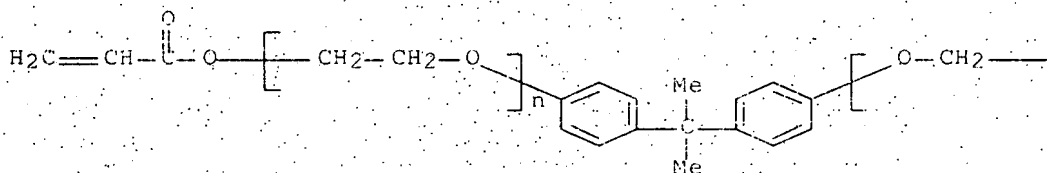
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CRN 64401-02-1

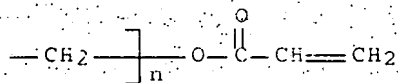
CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

PAGE 1-A



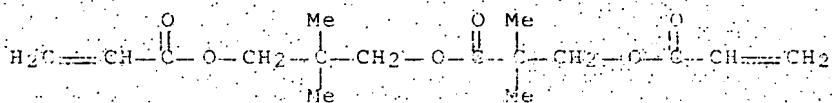
PAGE 1-B



CM 2

CRN 30145-51-8

CMF C16 H24 O6

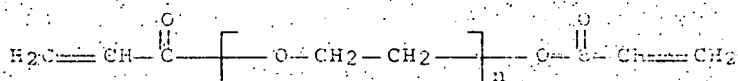


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

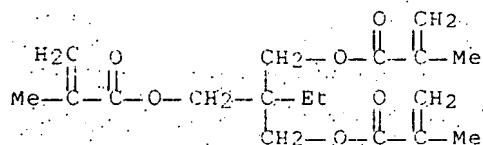
CCI PMS



CM 4

CRN 3290-92-4

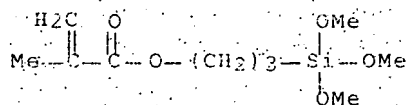
CMF C18 H26 O6



CM 5

CRN 2530-85-0

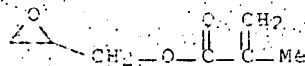
CMF C10 H20 O5 Si



CM 6

CRN 106-91-2

CMF C7 H10 O3



RN 705908-01-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-3-[[1-(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, Ebecryl 1830, α, α' -[[1-(2-methylethylidene)di-4,1-phenylene]bis[α -(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- α' -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 5-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME).

CM 1

CRN 146479-65-4

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

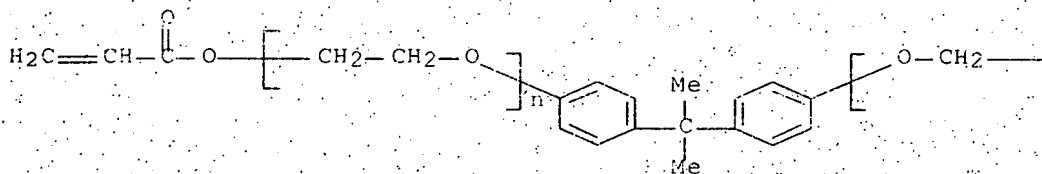
CM 2

CRN 64401-02-1

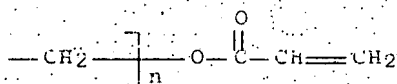
CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

PAGE 1-A



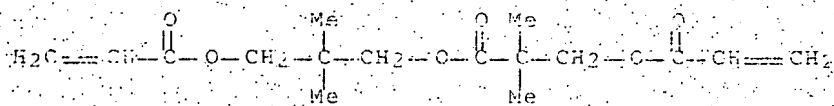
PAGE 1-B



CM 3

CRN 30145-51-8

CMF C16 H24 O6

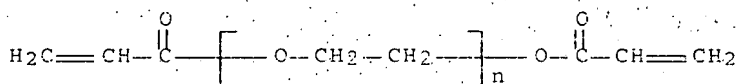


CM 4

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

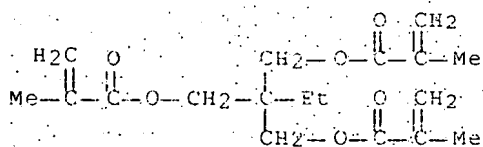
CCI PMS



CM 5

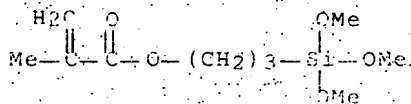
CRN 3290-92-4

CMF.. C18 H26 O6



CM 6

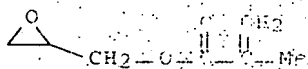
CRN 2530-85-0

$$\text{CMF} \quad \text{C10} \quad \text{H20} \quad \text{O5} \quad \text{Si}$$


CM . 7

CRN 106-91-2

CMF C7 H10 O3



RN 705968-02-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy-2,1-ethanediyl] ester, polymer with 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, Ebacryl 1830, 2,2'-(methylimino)bis[ethanol], α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), oxiranylmethyl

10/549,696

2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

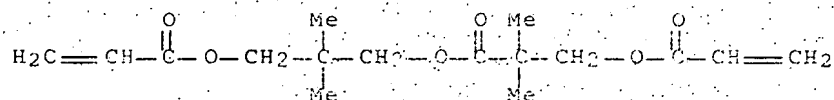
CCI PMS, MAN

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CM 2

CRN 30145-51-8

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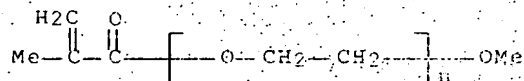


CM 3

CRN 26915-72-0

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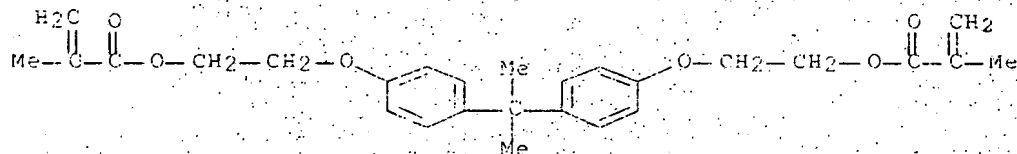
CCI PMS



CM 4

CRN 24448-20-2

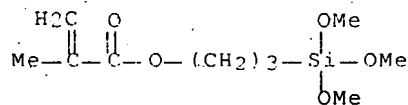
CMF C27 H32 O6



CM 5

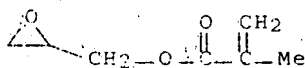
10/549,696

CRN 2530-85-0
CMF C10 H20 O5 Si



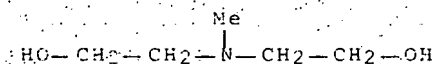
CM 6

CRN 106-91-2
CMF C7 H10 O3



CM 7

CRN 105-59-9
CMF C5 H13 N O2



RN 705968-03-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranymethyl ester, polymer with
3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-
dimethylpropyl 2-propenoate, Ebecryl 1830, α -hydro- ω -[(1-
oxo-2-propenyl)oxy]poly[oxy(1,6-hexanediyl)],
 α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-
oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], 2,2'-
(methylimino)bis[ethanol], NK Oligo U-6HA, α -(1-oxo-2-propenyl)-
 ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and
3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4
CMF Unspecified
CCI PMS, MAN

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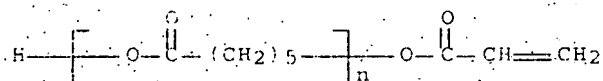
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CRN 116958-66-8
 CMF Unspecified
 CCI PMS, MAN

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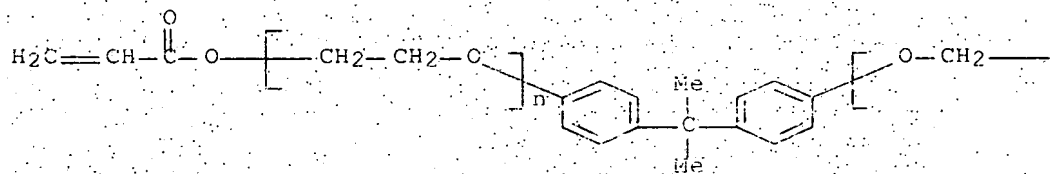
CM 3

CRN 97387-29-6
 CMF (C6 H10 O2)n C3 H4 O2
 CCI PMS

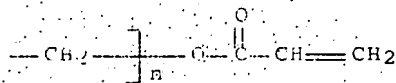


CM 4

CRN 64401-02-1
 CMF (C2 H4 O)n (C2 H4 O)n C21 H20 O4
 CCI PMS



PAGE 1-A

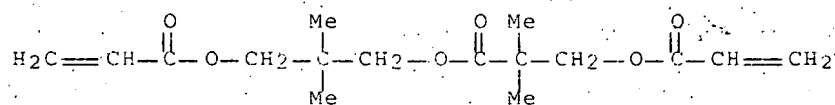


PAGE 1-B

CM 5

CRN 30145-51-8
 CMF C16 H24 O6

10/549,696

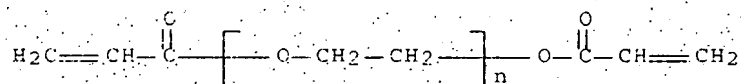


CM 6

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

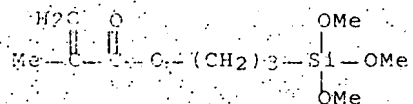
CCI PMS



CM 7

CRN 2530-85-0

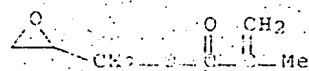
CMF C10 H20 O5 Si



CM 8

CRN 106-91-2

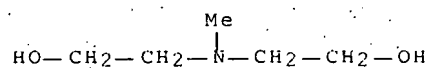
CMF C7 H10 O3



CM 9

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-04-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, α -hydro- ω -[(1-oxo-2-propenyl)oxy]poly[oxy(1-oxo-1,6-hexanediyl)], (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], NK Oligo U 6HA, oxiranylmethyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMF Unspecified

CCI PMS, MAN

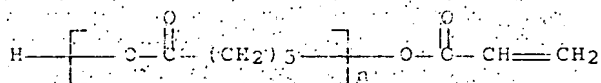
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CM 2

CRN 97387-29-6

CMF (C6 H10 O2)_n C3 H4 O2

CCI PMS

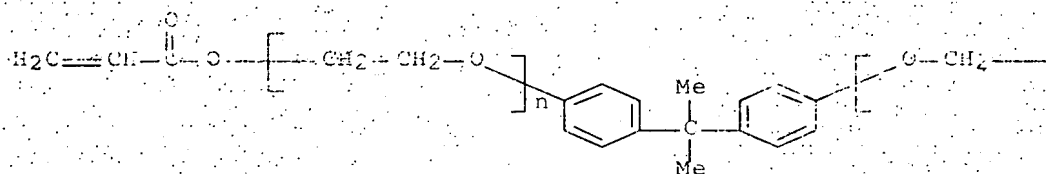


CM 3

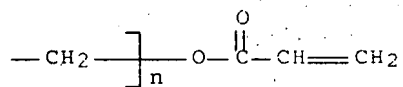
CRN 64401-02-1

CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS



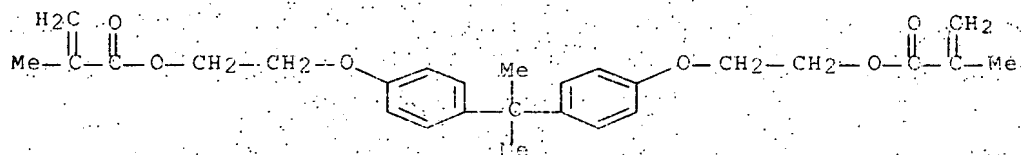
PAGE 1-A



CM 4

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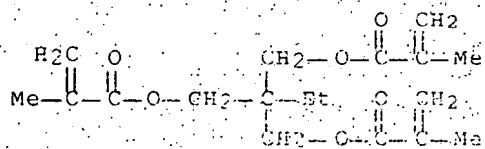
CMF C27 H32 O6



CM 5

CRN 3290-92-4

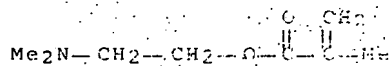
CMF C18 H26 O6



CM . 6

CRN: 2857-47-2

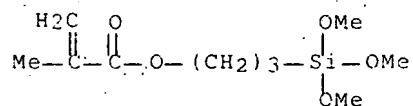
CMF. C8 H15 N O2



CM 7

CRN · 2530 · 85-0

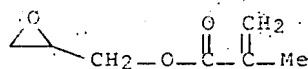
CMF C10 H20 O5 Si



CM 8

CRN 106-91-2

CMF C7 H10 O3



RN 705968-05-4 HCAPLUS

CN Butanedioic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], 2,2'-(methylimino)bis[ethanol] oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

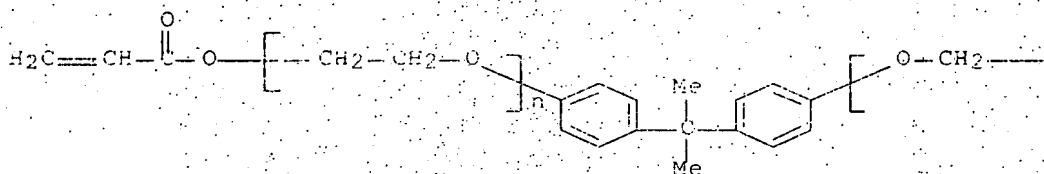
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CRN 64401-02-1

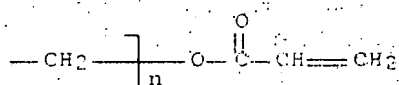
CMF (C2 H4 O) $_n$ (C2 H4 O) $_n$ C21 H20 O4

CCI PMS

PAGE 1-A



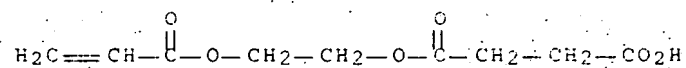
PAGE 1-B



CM 2

CRN 50940-49-3

CMF C9 H12 O6

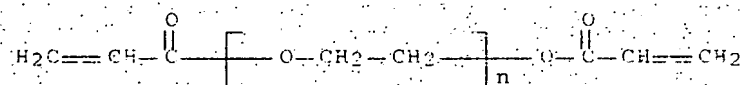


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

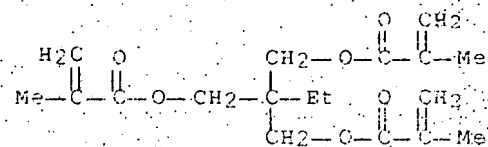
CCI PMS



CM 4

CRN 3290-92-4

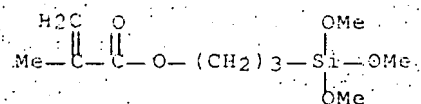
CMF C18 H26 O6



CM 5

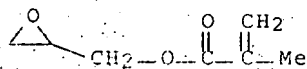
CRN 2530-85-0

CMF C10 H20 O5 Si



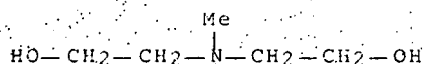
CM 6

CRN 106-91-2
 CMF C7 H10 O3



CM 7

CRN 105-59-9
 CMF C5 H13 N O2



RN 705968-06-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, Ebecryl 1701, (1-methylethylidené)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), 2,2'-(methylinino)bis[ethanol], NK Oligo U 6HA, and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 135990-90-8
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

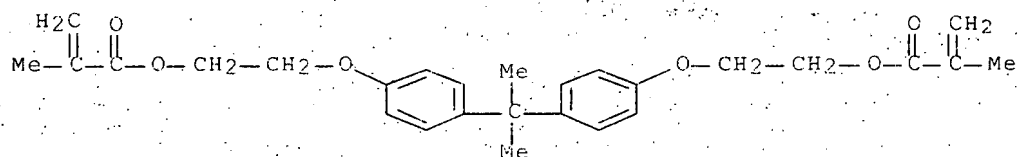
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 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

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 CMF C27 H32 O6

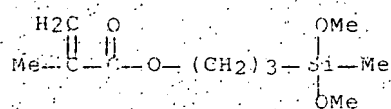
10/549,696



CM 4

CRN 14513-34-9

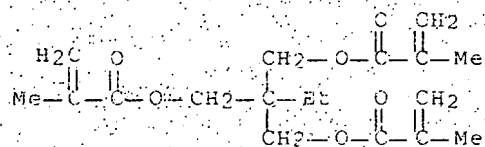
CMF C10 H20 O4 Si



CM 5

CRN 3290-92-4

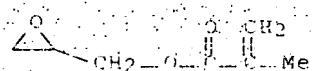
CMF C18 H26 O6



CM 6

CRN 106-91-2

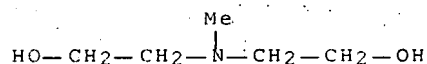
CMF C7 H10 O3



CM 7

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-07-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, Ebecryl 1701, Ebecryl 1830, α, α' -[[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCT PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 135990-90-8

CMF Unspecified

CCT PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

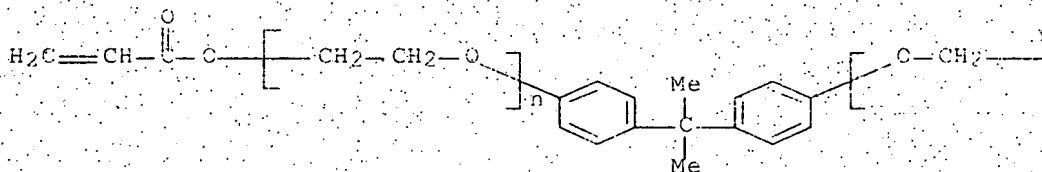
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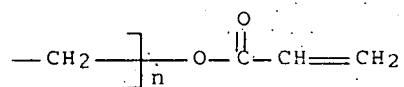
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CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCT PMS

PAGE 1-A



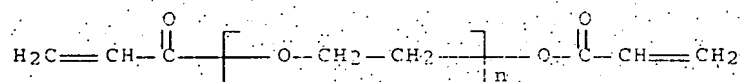


CM 4

CRN 26570-48-9

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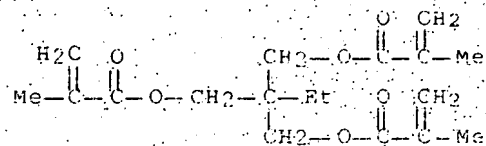
CCI PMS



CM 5

CRN 3290-92-4

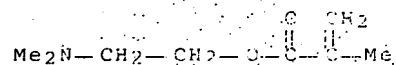
CMF C18 H26 O6



CM 6

CRN 2867-47-2

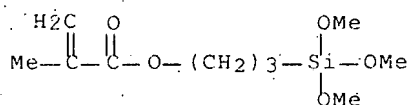
CMF C8 H15 N O2



CM. 7.

CRN 2530-8540

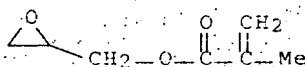
CMF. C10 H20. O5 Si



CM . 8

CRN 106-91-2

CMF C7 H10 O3



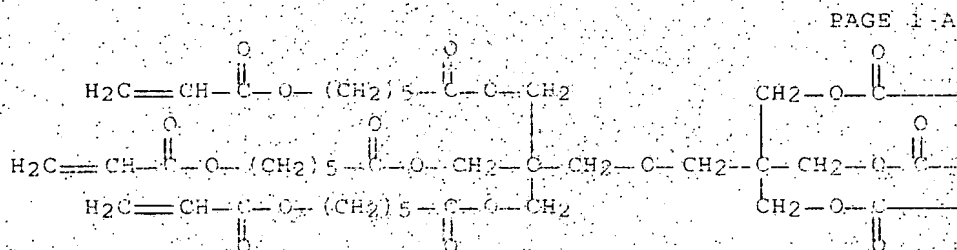
RN 705968-08-7 HCAPLUS

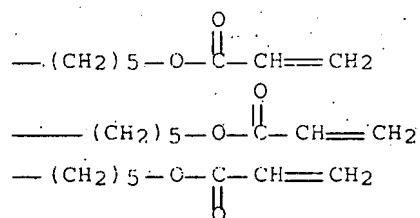
CN Hexanoic acid, 6-[[[1-oxo-2-propenyl]oxy]-, 2-[[[3-[[[1-oxo-6-[[[1-oxo-2-propenyl]oxy]hexyl]oxy]-2,2-bis[[[1-oxo-6-[[[1-oxo-2-propenyl]oxy]hexyl]oxy]methyl]propoxy]methyl]-2-[[[1-oxo-6-[[[1-oxo-2-propenyl]oxy]hexyl]oxy]methyl]-1,3-propanediyl ester, polymer with 2-ethyl-2-[[[2-methyl-1-oxo-2-propenyl]oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), 3-(methoxydimethylsilyl)propyl 2-methyl-2-propenoate, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), 2,2'-bis(methylimino)bis[ethanol], α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl) and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 93294-9744

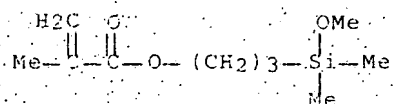
CMF C64 H94 025





CM 2

CRN: 66753-64-8

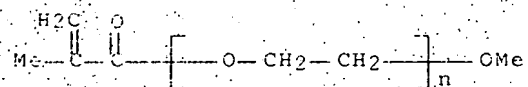
$$\text{CMF} \cdot \text{C}_{10} \text{H}_{20} \text{O}_3 \cdot \text{Si}$$


CM 3

CRN: 26915-72-0

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \quad \text{C}_5 \text{ H}_8 \text{ O}_2$$

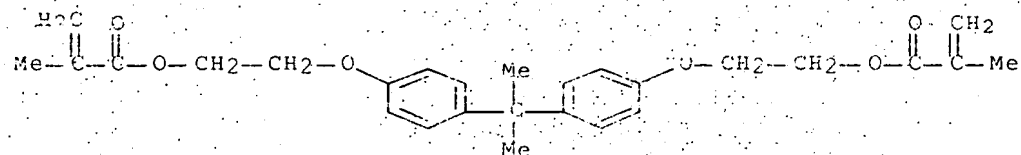
CCI PMS



CM 4

CRN 24448-20-2

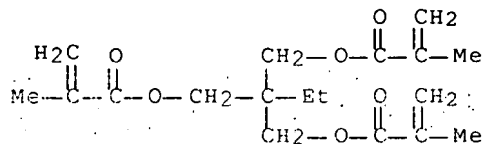
CMF C2.7 H32 06



CM 5

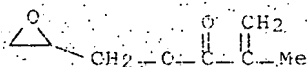
CRN 3290-92-4

CMF C18 H26 O6



CM 6

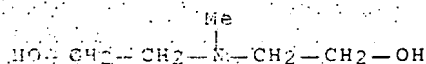
CRN 106-91-2

C7H10O3

CM 7

CRN 105-59-9

CMF C5 H13 N 02



RN 705968-09-8 HCAPLUS

3-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl] ester, polymer with 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], α,α' -[[[1-methylethylidene)di-4,1-phenylene]bis[o-[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)]]-, 2,2'-(methylimino)bis[ethanol], NK 01 go U SHA oxiranylmethyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -[[[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9UT) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMF: Unspecified

CCT PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

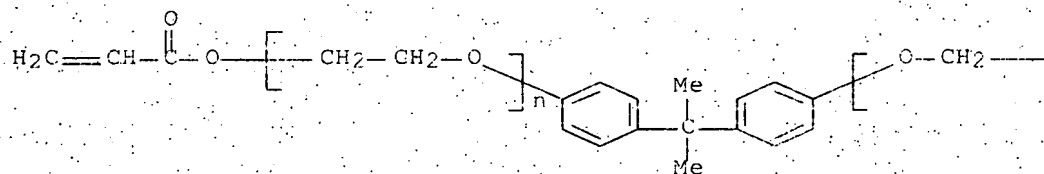
CM 2

CRN 64401-02-1

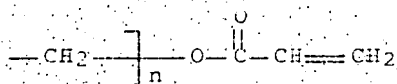
CMF (C2 H4 O)n (C2 H4 O)n C21 H20 O4

CCI PMS

PAGE 1-A



PAGE 1-B

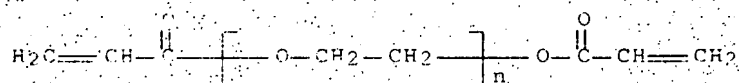


CM 3

CRN 26570-48-9

CMF (C2 H4 O)n C6 H6 O3

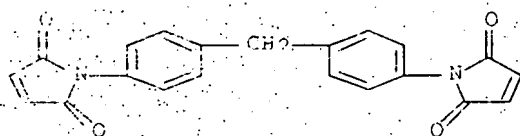
CCI PMS



CM 4

CRN 13676-54-5

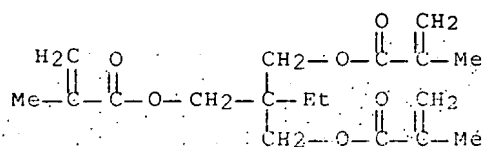
CMF C21 H14 N2 O4



CM 5

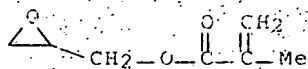
CRN 3290-92-4

CMF · C18 · H26 06



CM 6

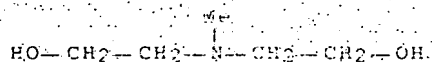
CRN 106-91-2

CMF.C7.H10.O3

CM 7

CRN 105 59-9

QMF 05 213 N 02



RM 705968-10-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1,1'-(methylene-di-4,1-phenylene)bis[1H-pyrrole-2,5-dione], α, α' -[[1-methylethylidene]di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], EK Oligo-G 69A, oxiranylmethyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

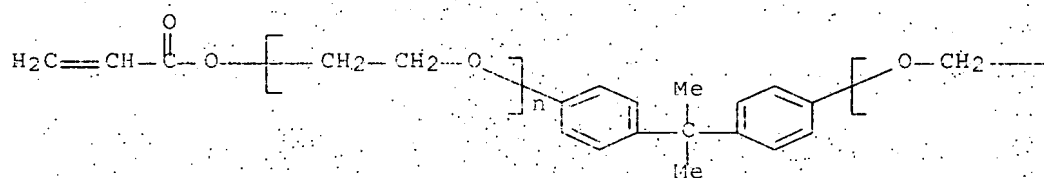
CM 2

CRN 64401-02-1

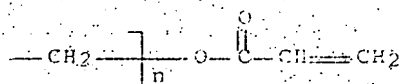
CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

PAGE 1-A



PAGE 1-B

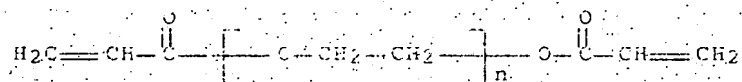


CM 3

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

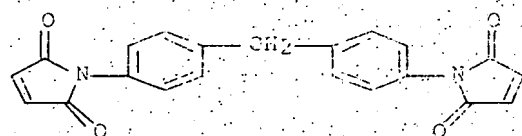
CCI PMS



CM 4

CRN 13676-54-5

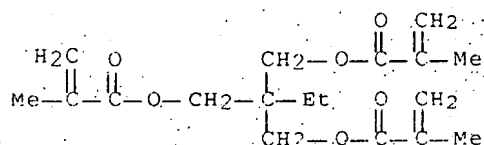
CMF C21 H14 N2 O4



CM 5

CRN 3290-92-4

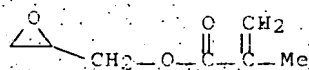
CMF C18 H26 O6



CM 6

CRN 106-91-2

CMF C7 H10 O3



RN 705958-11-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], 2,2'-(methyylimino)bis[ethanediyl], α -(2-methyl-1-oxo-2-propenyl)- α -methoxypoly(oxy-1,2-ethanediyl), NK Oligo U 6HA and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMF Unspecified

CCI PMS, MAN

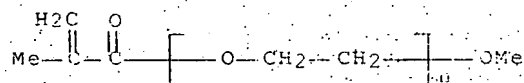
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CM 2

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

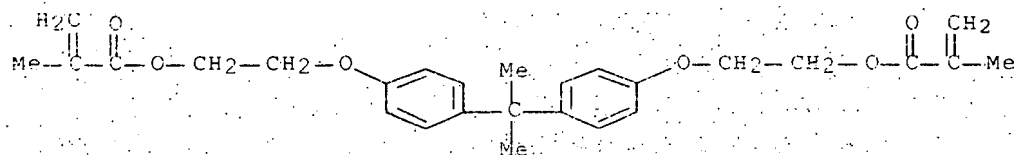
CCI PMS



CM 3

CRN 24448-20-2

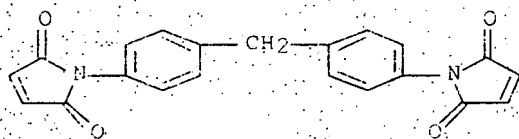
CMF C27 H32 O6



CM 4

CRN 13676-54-5

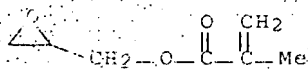
CMF C21 H14 N2 O4



CM 5

CRN 106-91-2

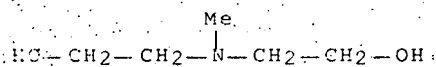
CMF C7 H10 O3



CM 6

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-12-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione],
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-
 oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], 2,2'-
 (methylimino)bis[ethanol], NK Oligo U 6HA, α -(1-oxo-2-propenyl)-
 ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and
 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMP Unspecified

CCI PMS, MAN

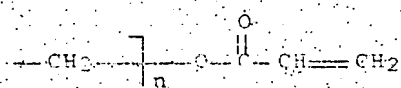
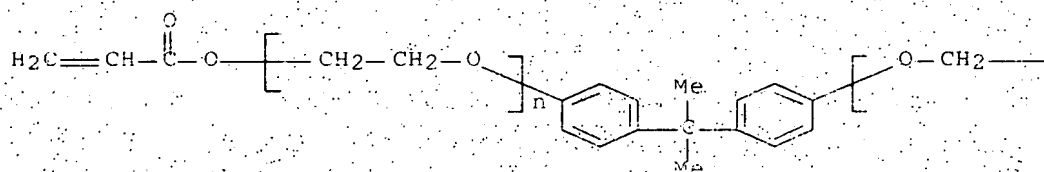
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CM 2

CRN 64401-02-1

CMP (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS



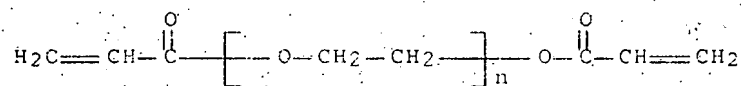
CM 3

CPN 26570-48-9

CMP (C2 H4 O)_n C6 H6 O3

CCI PMS

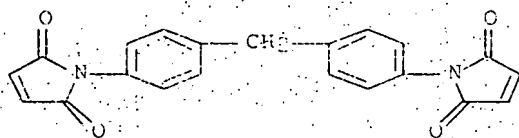
10/549,696



CM 4

CRN 13676-54-5

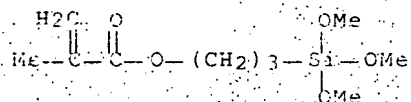
CMF C21 H14 N2 O4



CM 5

CRN 2530-85-0

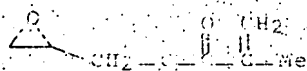
CMF C10 H20 O5 Si



CM 6

CRN 106-91-2

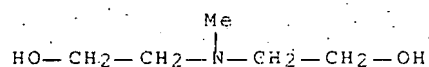
CMF C7 H10 O3



CM 7

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-13-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxyl-2,2-dimethylpropyl 2-propenoate, Ebecryl 1830, 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCI PMS, MAN

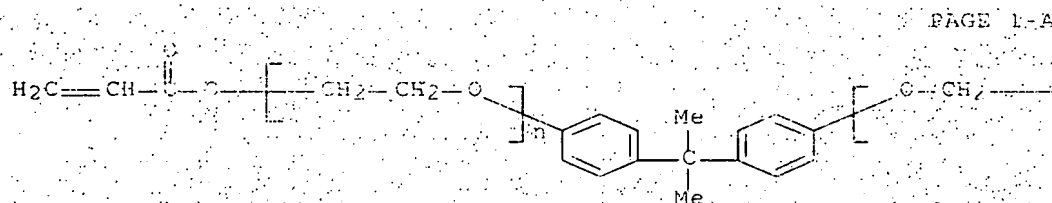
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CM 2

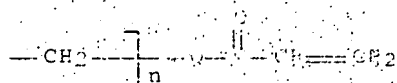
CRN 64401-02-1

CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

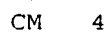


PAGE 1-B

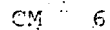


CM 3

CRN 30145-51-8


$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_6 \text{ H}_6 \text{ O}_3$$

CCI PMS

CMF C21 H14 N2 O4

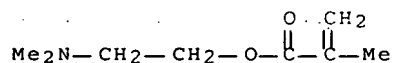
CMF C18 H26 06



CM 7

CRN 2867-47-2

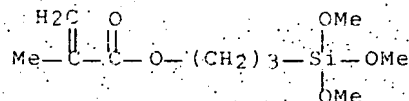
CMF C8 H15 N O2



CM 8

CRN 2530-85-0

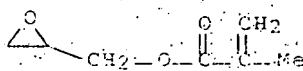
CMF C10 H20 O5 Si



CM 9

CRN 106-91-2

CMF C7 H10 O3



RN 705968-14-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxylmethyl]-1,3-propanediyl ester, polymer with 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxylpropoxy]-2,2-dimethylpropyl 2-propenoate, 1/1'-[(1-methylethylidene)bis(4,1-phenyleneoxy-4,1-phenylene)]bis[1H-pyrrole-2,5-dione], α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxylpoly(oxy-1,2-ethanediyl)], 2,2'-(methylimino)bis[ethanol] NK Oligo U 6HA, oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxylpoly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 116958-66-8

CMF Unspecified

CCI PMS, MAN

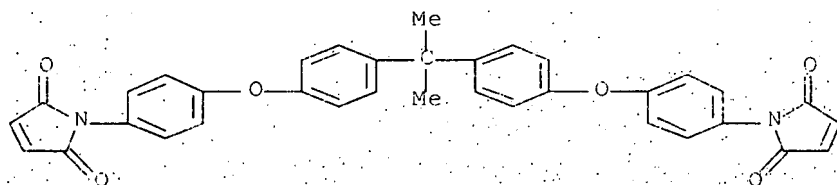
10/549,696

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 79922-55-7

CMF C35 H26 N2 O6

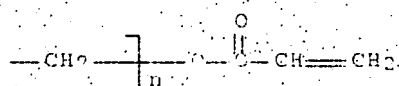
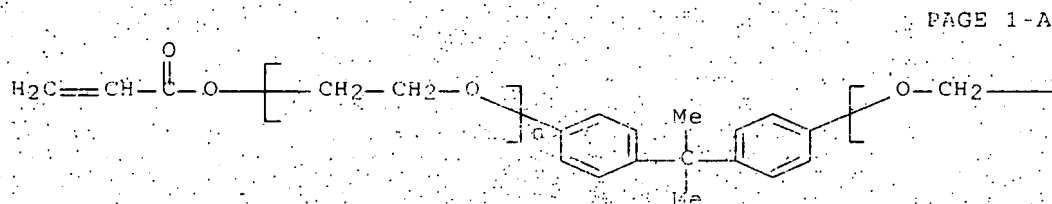


CM 3

CRN 64401-02-1

CMF (C2 H4 O)n (C2 H4 O)n C21 H20 O4

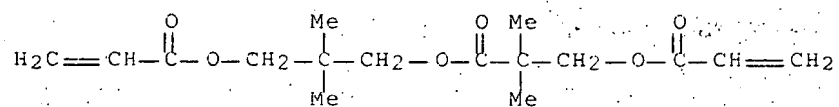
CCI PMS



CM 4

CRN 30145-51-8

CMF C16 H24 O6

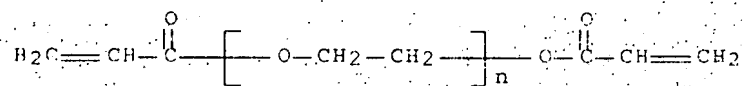


CM 5

CRN 26570-48-9

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_6 \text{ H}_6 \text{ O}_3$$

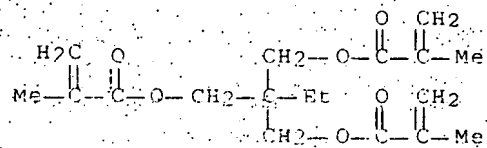
CCI PMS



CM 6

CRN 3290-92-4

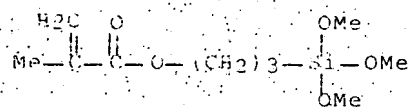
CMF C18 H26 O6



CM 7

CRN 2530-85-0

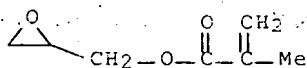
CMF C10 H20 O5 Si



CM: 8:

CRN 106-91-2

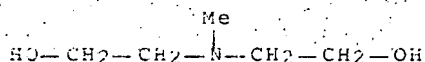
CMF C7 H10 O3



CM 9

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-17-8 HCAPLUS

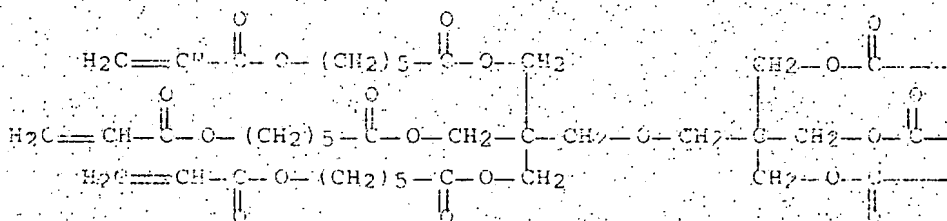
CN Hexanoic acid, 6-[(1-oxo-3-propenyl)oxy]-, 2-[[3-[(1-oxo-6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]-2,2-bis[[[1-oxo-6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]methyl]propoxy]methyl]-2-[[[1-oxo-6-[(1-oxo-2-propenyl)oxy]hexyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], 2,2'-(methylimino)bis[ethanol], oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI). (CA INDEX NAME)

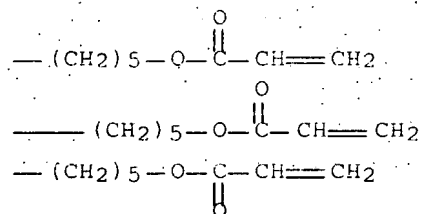
CM 1

CRN 93294-97-4

CMF C64 H94 O25

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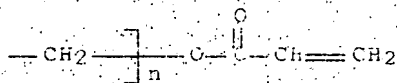
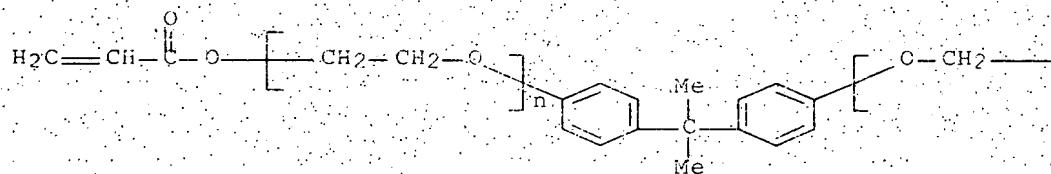


CM 2

CRN 64401-02-1

CMF (C2 H4 O)n (C2 H4 O)n C21 H20 O4

CCI PMS

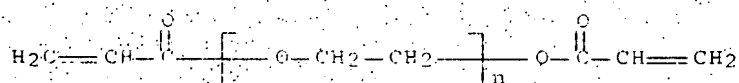


CM 3

CRN 26570-48-9

CMF (C2 H4 O)n C6 H6 O3

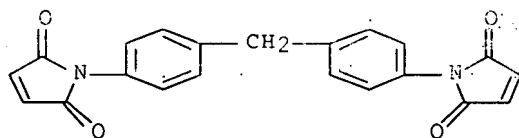
CCI PMS



CM 4

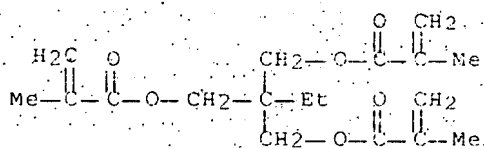
10/549,696

CRN 13676-54-5
CMF C21 H14 N2 O4



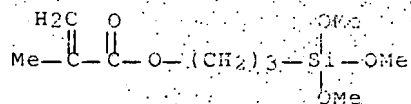
CM 5

CRN 3290-92-4
CMF C18 H26 O6



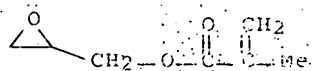
CM 6

CRN 2530-85-0
CMF C10 H20 O5 S1



CM 7

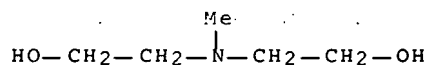
CRN 106-91-2
CMF C7 H10 O3



CM 8

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-18-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 3-[2,2-dimethyl 1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, Ebecryl 1830, 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], NK Oligo U 6HA, oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 116958-66-8

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

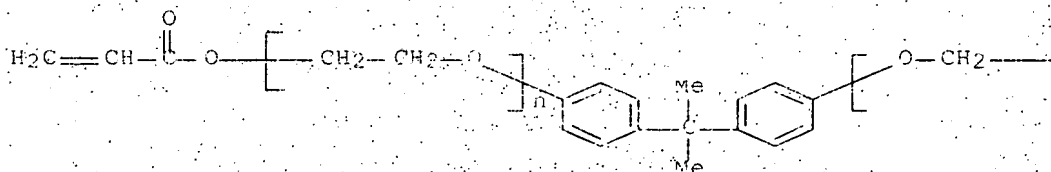
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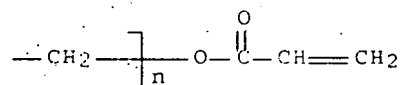
CRN 64401-02-1

CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

PAGE 1-A

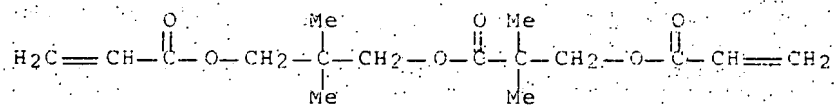




CM 4

CRN 30145-51-8

CMF C16 H24 O6

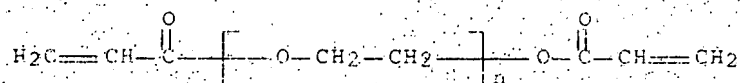


CM 5

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

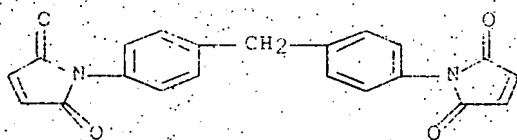
CCI PMS



CM 6

CRN 13676-54-5

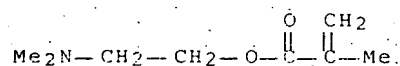
CMF C21 H14 N2 O4



CM 7

CRN 2867-47-2

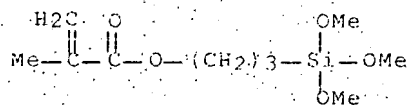
CMF C8 H15 N O2



CM 8

CRN 2530-85-0

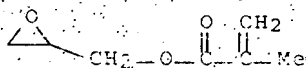
CMF C10 H20 O5 Si



CM 9

CRN 106-91-2

CMF C7 H10 O3



RN 705960-19-0 HCAPLUS

2-propenoic acid, 2-methyl-, 2-ethyl-2-[[[2-methyl-1-oxo-2-propenyl]oxy]methyl]-1,3-propanediyl ester, polymer with 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, Ebecryl 1701, 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)bis(2-methyl-2-propenoate), 2,2'-(methylimino)bis[ethanol], NK Oligo U 65A and oxiranylmethyl 2-methyl-2-propenoate (SCI) (CA INDEX NAME)

CM 1

CRN 035990-90-8

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 116958-66-8

CMF Unspecified

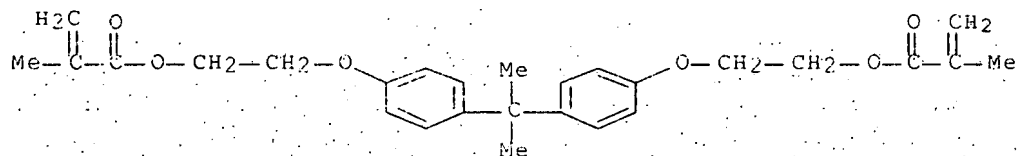
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

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CRN 24448-20-2

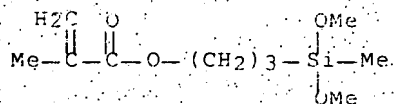
CMF C27 H32 O6



CM 4

CRN 14513-34-9

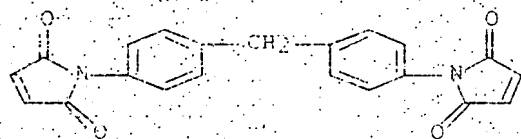
CMF C10 H20 O4 Si



CM 5

CRN 13676-54-5

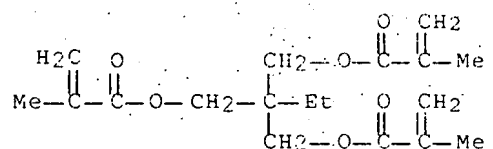
CMF C21 H14 N2 O4



CM 6

CRN 3290-92-1

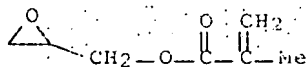
CMF C19 H26 O6



CM 7

CRN 106-91-2

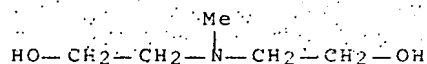
CMF C7 H10.03



CM 8

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-20-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[2-methyl-1-oxo-2-propenyl]oxy]methyl]-1,3-propanediyl ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, Ebecryl 1701, Ebecryl 1830, 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole-2,5-dione], (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)bis(2-methyl-2-propenoate), α -(2-methyl-1-oxo-2-propenyl)- ω -methoxypoly(oxy-1,2-ethanediyl), oxiranylmethyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1:

CRM 146479 65-1

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CH 2

CPN 135990-90-8

CMP Unspecified

CCI PMS, MAN

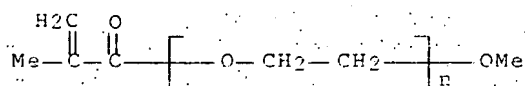
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CM 3.

CRN 26915-72-0

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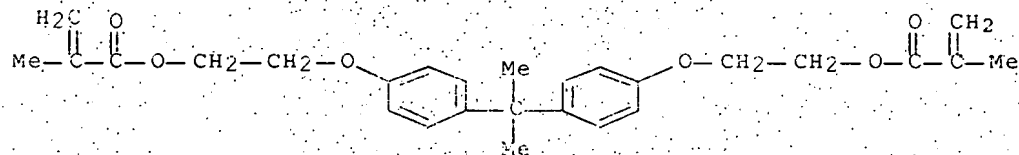
CCI PMS



CM 4.

CRN 24448-20-2

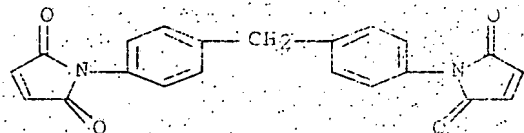
CMF C27 H32 O6



CM 5

CRN 13676-54-5

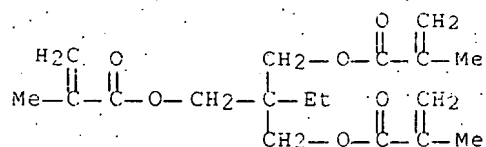
CMF C21 H14 N2 O4



CM 6

CRN 3220-92-4

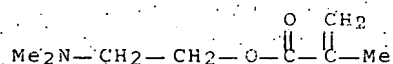
CMF C18 H26 O6



CM 7

CRN 2867-47-2

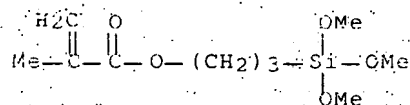
CMF C8 H15 N O2



CM 8

CRN 2530-85-0

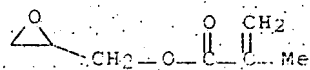
CMF C10 H20 O5 Si



CM 9

CRN 106-91-2

CMF C7 H10 O3



RN 705968-21-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 3-(dimethoxymethylsilyl)propyl 2-methyl-2-propenoate, 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, Ebecryl 1830, 1,1'-(methylenedi-4,1-phenylene)bis[1H-pyrrole 2,5-dione], α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(1-oxo-2-

10/549.696

propenyl)oxy]poly(oxy-1,2-ethanediyl)}, 2,2'-(methyylimino)bis[ethanol], oxiranylmethyl 2-methyl-2-propenoate and α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCI PMS, MAN

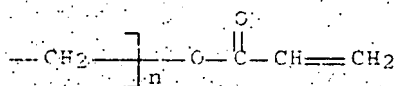
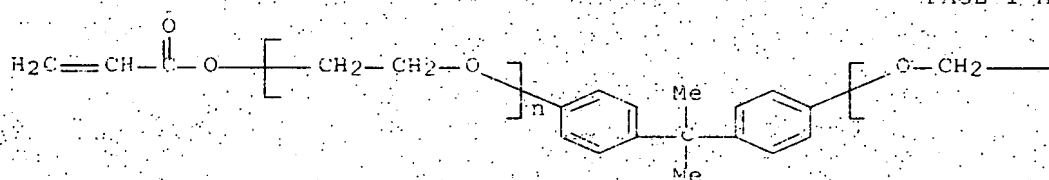
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CM 2

CRN 64401-02-1

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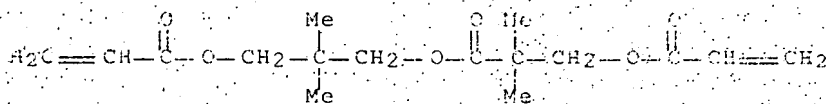
CCI PMS



CM 3

CRN 30145-51-8

CMF C16 H24 O6



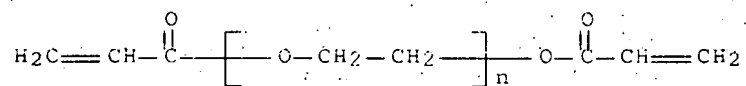
CM 4

CRN 26570-48-9

10/549,696

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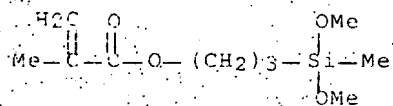
CCI PMS



CM 5

CRN 14513-34-9

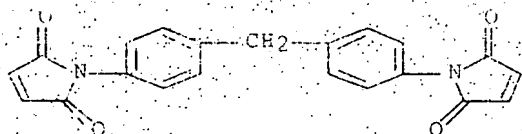
CMF. C10 H20 O4 Si.



CM 6.

CRN 13676454-5

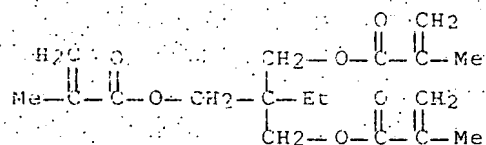
CMF C21 H14 N2 O4



CM . 7

CRN 3230-92-4

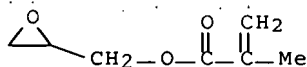
CME C18 H26 O6



CM 8

CRN 106-91-2

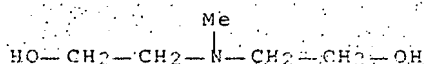
CMF C7 H10 O3



CM 9

CRN 105-59-9

CMF C5 H13 N O2



RN 705968-32-7 HCAPLUS

CN 1,2-Cyclohexanedicarboxylic acid, mono[2-[(1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 3-[2,2-dimethyl-1-oxo-3-[(1-oxo-2-propenyl)oxy]propoxy]-2,2-dimethylpropyl 2-propenoate, α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], HK Oligo U-6HA, oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 116959-66-8

CMF Unspecified

CCI PMS MAN

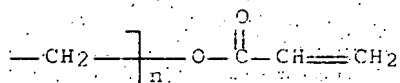
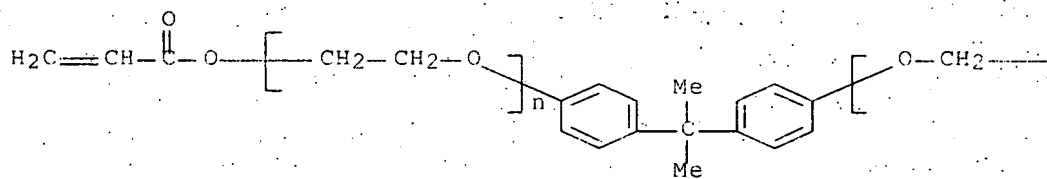
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CM 2

CRN 64401-02-1

CMF (C2 H4 O)n (C2 H4 O)n C21 H20 O4

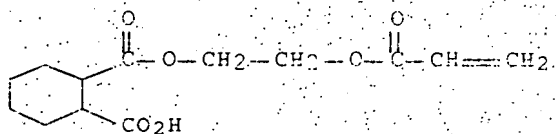
CCI PMS



CM 3

CRN 57043-35-3

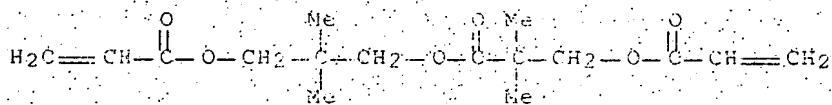
CMF C13 H18 O6



CM 4

CRN 30145-51-6

CMF C16 H24 O6

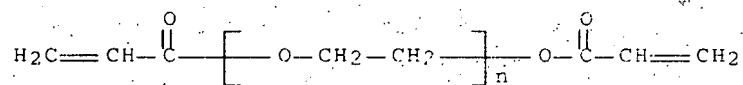


CM 5

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

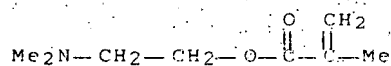
CCI PMS



CM 6

CRN 2867-47-2

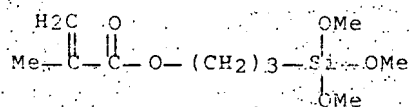
CMF C8 H15 N O2



CM 7

CRN 2530-85-0

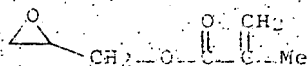
CMF C16 H20 O5 Si



CM 8

CRN 106-91-2

CMF C7 H10 O3



IC ICM C09D004-00

ICS C09D007-12; C09K009-02; C08J007-04; G02B005-23; G02C007-10

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 33, 73

IT Photochromic materials

(eyeglass lenses; photochromic coating composition for optical article)

IT Coating materials

Eyeglass lenses

(photochromic; photochromic coating composition for optical article)

IT Lenses

(plastic; photochromic coating composition for optical article)

IT 705967-98-2P 705967-99-3P 705968-00-9P
 705968-01-0P 705968-02-1P 705968-03-2P
 705968-04-3P 705968-05-4P 705968-06-5P
 705968-07-6P 705968-08-7P 705968-09-8P
 705968-10-1P 705968-11-2P 705968-12-3P
 705968-13-4P 705968-14-5P 705968-16-7P
 705968-17-8P 705968-18-9P 705968-19-0P
 705968-20-3P 705968-21-4P 705968-32-7P

(photochromic coating composition for optical article)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR
 THIS RECORD. ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

L24 ANSWER 7 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:251909 HCAPLUS Full-text

DOCUMENT NUMBER: 140:276248

TITLE: Method of manufacturing ophthalmic lenses made
 from hydrophobic acrylic polymers

INVENTOR(S): Liao, Xiugao; Wilcox, Christopher D.

PATENT ASSIGNEE(S): Medennium, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCC

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004056371	A1	20040325	US 2003-647875	20030825
WO 2004029675	A1	20040408	WO 2003-US27811	20030904

W: AT, BG, CH, CZ, DE, EE, ES, FI, GB, HU, JP, LU, PT, RO, SE,
 SK, TR

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
 IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR

EP 1543356	A1	20050622	EP 2003-754446	20030904
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R: AT, BE, CH, DE, DK, ES, FF, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO: US 2002-413502P P 20020925

US 2003-647875 A 20030825

WO 2003-US27811 W 20030904

ED Entered STN: 26 Mar 2004

AB A method of forming an ophthalmic lens from a hydrophobic acrylic polymer composition comprises: (a) forming a pre-polymer gel from a hydrophobic acrylic polymer; (b) forming at least the optical portion of the ophthalmic lens from the pre-polymer gel in a fused silica mold; and (c) extracting the ophthalmic lens or its optical portion formed in step (b) such that the extracted lens remains transparent in an aqueous medium. A prepolymer was prepared from 2-(4-benzoyl-3-hydroxyphenoxy)ethyl acrylate and phenoxyethyl acrylate, then mixed with bisphenol A ethoxylate dimethacrylate crosslinker to give a viscous solution

IT 328233-84-7P, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl
acrylate-bisphenol A ethoxylate dimethacrylate-phenoxyethyl acrylate
copolymer
(method of manufacturing ophthalmic lenses made from hydrophobic acrylic
polymers)

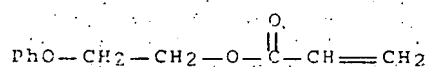
RN 328233-84-7 HCAPLUS

CN 2-Propenoic acid, 2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and 2-phenoxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 48145-04-6

CMF C11 H12 O3

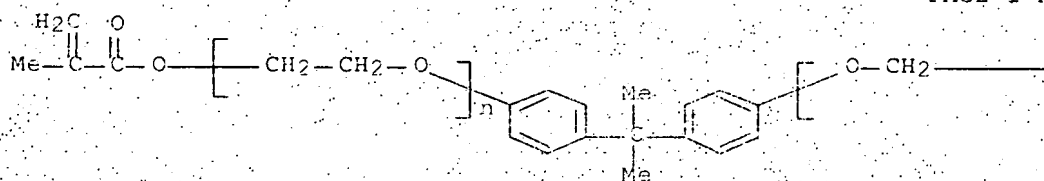


CM 2

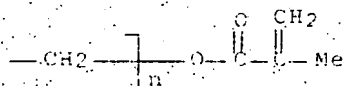
CRN: 41637-38-1

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \quad \text{C}_{23} \text{ H}_{24} \text{ O}_4$$

CC1 PMS



PAGE 1-A

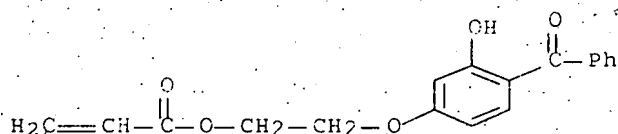


PAGE 1-B

CM 3

CRN 16432-81-8

CMF C18 H16 O5



IC ICM B29D011-00
 INCL 264002500; 264002600
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s): 38
 IT Intraocular lenses
 UV stabilizers
 (method of manufacturing ophthalmic lenses made from hydrophobic acrylic polymers)
 IT 87006-82-4P, Ethylene glycol dimethacrylate-methyl methacrylate-stearyl methacrylate copolymer 329233-84-7P, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate-bisphenol A ethoxylate dimethacrylate-phenoxyethyl acrylate copolymer 674297-94-0P, 2-(4-Benzoyl-3-hydroxyphenoxy)ethyl acrylate-ethylene glycol dimethacrylate-phenoxyethyl acrylate copolymer
 (method of manufacturing ophthalmic lenses made from hydrophobic acrylic polymers)

L24 ANSWER 8 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:950922 HCAPLUS Full-text

DOCUMENT NUMBER: 140:21310

TITLE: Process for producing photochromic layered product with uniform thickness

INVENTOR(S): Mori, Katsuhiko; Nagoh, Hironobu; Momoda, Junji; Izumi, Shinobu

PATENT ASSIGNEE(S): Tokuyama Corporation, Japan

SOURCE: PCT Int. Appl., 94 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003099550	A1	20031204	WO 2003-JP6525	20030526
W: AU, CN, JP, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
AU 2003234848	A1	20031212	AU 2003-234848	20030526
CN 1578727	A	20050209	CN 2003-801402	20030526
EP 1561571	A1	20050810	EP 2003-728138	20030526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
US 2007065633	A1	20070322	US 2004-486373	20040706
PRIORITY APPLN. INFO.: JP 2002-152551 A 20020527				

ED Entered STN: 07 Dec 2003

AB Title process comprises (i) applying a photocurable composition containing a photochromic compound and a phosphorus type photoinitiator to the curved surface of a substrate and (ii) curing the photocurable composition by irradiation with active energy rays with intensity 0-5 at 200-300 nm, 25-75 at 300-400 nm, and 25-75% at 400-500 nm while keeping the substrate at $\leq 100^\circ$. A homogeneous thin coating film containing a photochromic compound in a high concentration can be formed. Thus, a mixture comprising photochromic compound 3, 2,2-bis(4-methacryloyloxypropyl)propane 43, polyethylene glycol diacrylate 15, trimethylolpropane trimethacrylate 15, EB 1830 polyester oligomer hexaacrylate 10, glycidyl methacrylate 10, γ -methacryloyloxypropyltrimethoxysilane 7, CG 1184 1-hydroxycyclohexyl Ph ketone 0.375, bis(2,6-trimethoxybenzoyl)-2,4,4-trimethylpentylphosphine oxide 0.125, N-methyldiethanolamine 3, and LS 765 bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate 5 parts was applied on a thiourethane-based plastic lens with refractive index 1.60, irradiated with a D valve lamp with intensity 2 at 200-300 nm, 56 at 300-400 nm, and 28% at 400-500 nm to give a coated plastic lens, which was heat-treated at 110° and plasma-treated to give a test piece with good durability, appearance, adhesion, photochromic property, low refractive index difference before and after coating, and yellow index 14.

IT 521272-62-8P 627209-39-1P

(process for producing photochromic layered products with uniform thickness).

RM 521272-62-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with Ebecryl 1830, α, α' -[[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)]], oxiranylmethyl 2-methyl-2-propenoate, α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 146479-65-4

CMF Unspecified

CCI FMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

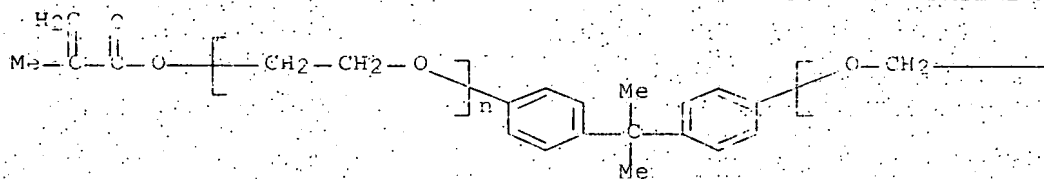
CM 2

CRN 41637-38-1

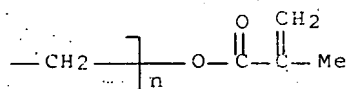
CMF (C2 H4 O) n (C2 H4 O) n C23 H24 O4

CCI PMS

PAGE 1-A



PAGE 1 -B

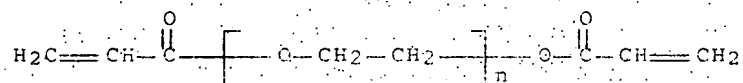


CM. 3

CRN. 26570-48-9

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_6 \text{ H}_6 \text{ O}_3$$

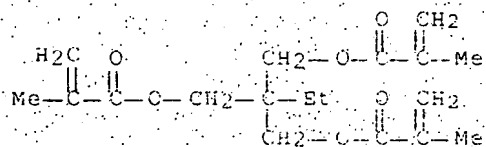
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CM 4

CRN 3290-92-4

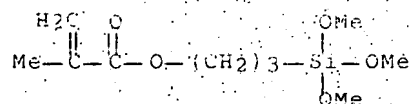
CMF C18 H26 O6



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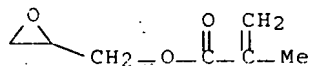
CRN 2530-85-0

CMF C10 P20 Q5 S1



CM 6

CRN 106-91-2
CMF C7 H10 O3



RN 627909-39-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], NK-Oligo U 6HA,
 α -(1-oxo-2-propenyl)- ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) and 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

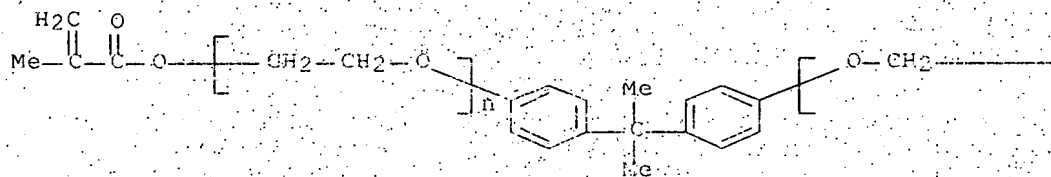
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CRN 116958-66-8
CMF Unspecified
CCI PMS, MAN

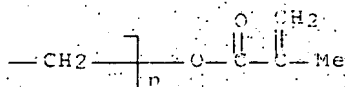
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CM 2

CRN 41637-38-1
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4
CCI PMS



PAGE 1-A

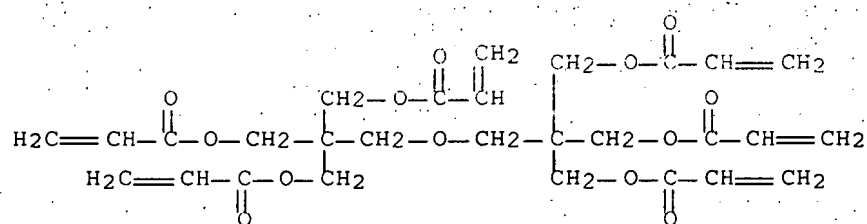


PAGE 1-B

CM 3

CRN 29570-58-9

CMF C28 H34 O13

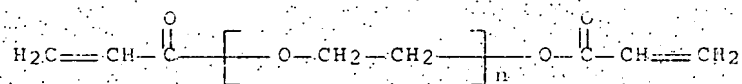


CM 4

CRN 26570-48-9

CMF (C2 H4 O)_n C6 H6 O3

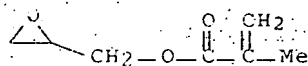
CCI PMS



CM 5

CRN 106-91-2

CMF C7 H10 O3



IC ICM B32B007-Q2

ICS B32B027-00, G02B001-10

CC 74-9 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38, 42, 63

IT Coating materials

Lenses

(photochromic; process for producing photochromic layered products with uniform thickness)

IT Lenses

(plastic, substrates; process for producing photochromic layered products with uniform thickness)

IT Eyeglass lenses

Laminated plastic films

Optical materials

Photochromic materials

(process for producing photochromic layered products with uniform thickness)

IT 521272-62-8P 626244-04-0P 627909-39-1P

(process for producing photochromic layered products with uniform thickness)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:644296 HCAPLUS Full-text

DOCUMENT NUMBER: 139:165525

TITLE: Cast polymerization for eyeglass plastic lenses

INVENTOR(S): Matsunaga, Hideki

PATENT ASSIGNEE(S): Seiko Epson Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003231134	A	20030819	JP 2002-32980	20020208
			<--	
PRIORITY APPLN. INFO.:			JP 2002-32980	20020208
			<--	

ED Entered STN: 19 Aug 2003

AB In the cast polymerization process comprising forming molds by winding pressure-sensitive adhesive tape around periphery of 2 molds faced oppositely at a fixed interval, forming a hole through the adhesive tape, pouring liquid photocurable plastic lens materials into the mold through the hole by a syringe, and irradiating light, the hole is not sealed after pouring of the materials, which are then cured. Thus, bisphenol A diglycidyl ether dimethacrylate 40, nonabutylene glycol dimethacrylate 20, Ph methacrylate 25, IPDI-2-hydroxypropyl methacrylate (1:2) adduct 15, 2,4,6-trimethylbenzoyldiphenylphosphine oxide 0.03, 2-hydroxy-4-methoxybenzophenone 0.05, and tridodecyl phosphate 0.2 g were blended and degassed to give a UV-curable lens material, which was poured into a mold and irradiated with UV to give a lens with good appearance.

IT 214915-00-1P, Bisphenol A diglycidyl ether dimethacrylate-nonabutylene glycol dimethacrylate-phenyl methacrylate-1:2 IPDI/2-hydroxypropyl methacrylate adduct copolymer (cast molding of eyeglass plastic lenses with good appearance)

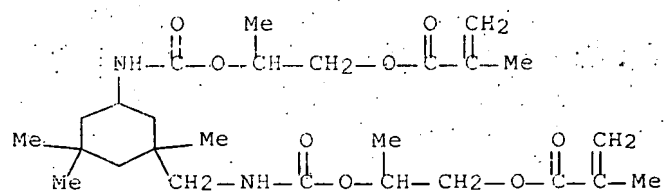
RN 214915-00-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with 5,10,15,20,25,30,35,40-octaooxatetratetracontane-1,44-diyl bis(2-methyl-2-propenoate), phenyl 2-methyl-2-propenoate and 2-[[[[[1,3,3-trimethyl-5-[[[1-methyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]propyl 2-methyl-2-propenoate (PCI) (CA INDEX NAME)

CM 1

CRN 76701-94-5

CMF C26 H42 N2 O8

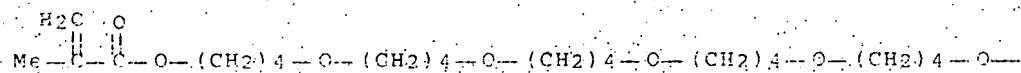


CM 2

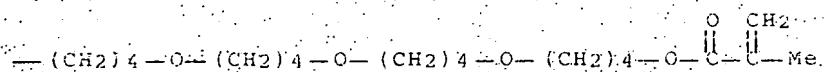
CRN 17622-68-3

CMF C44 H82 O12

PAGE 1-A



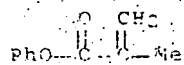
PAGE 1-B



CM 3

CRN 2177-70-0

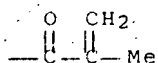
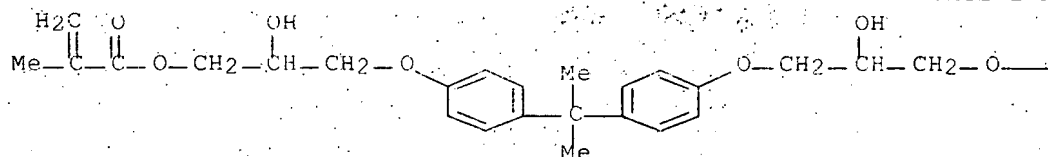
CMF C10 H10 O2



CM 4

CRN 1565-94-2

CMF C29 H36 O8



IC ICM B29C039-24
ICS B29C039-02; B29C039-26; B29L011-00
CC 38-2 (Plastics Fabrication and Uses)
Section cross-reference(s): 63
IT Casting of polymeric materials
Eyeglass lenses
(cast molding of eyeglass plastic lenses with good appearance)
IT 214915-00-1P, Bisphenol A diglycidyl ether
dimethacrylate-nonabutylene glycol dimethacrylate-phenyl
methacrylate-1:2 IPDI/2-hydroxypropyl methacrylate adduct copolymer
(cast molding of eyeglass plastic lenses with good appearance)

L24 ANSWER 10 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:590539 HCAPLUS Full-text

DOCUMENT NUMBER: 139:154966

TITLE: Manufacture of photochromic contact lenses

INVENTOR(S): Van Gemert, Barry; Kumar, Anil; Mallak, Frank P.;
Walters, Robert W.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002142267	A1	20030731	US 2002-315656	20021210
WO 2004052631	A2	20040624	WO 2003-US39403	20031210
WO 2004052631	A3	20040910		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, ME, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN,
YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE,
 DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
 SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

AU 2003297878 A1 20040630 AU 2003-297878 20031210

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EP 1575761 A2 20050921 EP 2003-796947 20031210

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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

BR 2003016591 A 20051004 BR 2003-16591 20031210

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JP 2006503338 T 20060126 JP 2004-558695 20031210

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CN 1732078 A 20060208 CN 2003-80101704 20031210

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PRIORITY APPLN. INFO.: US 2001-340047P P 20011210

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US 2002-315656 A 20021210

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WO 2003-US39403 W 20031210

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ED Entered STN: 01 Aug 2003

AB Described are contact lenses having photochromic materials within the central or pupillary area of the lens and methods for manufacturing such lenses. In one method, a photochromic amount of 1 photochromic material is added to the pupillary region of a casting mold containing a polymerizable monomer that can be at least partially cured before and/or after the addition. Another method involves providing an amount of polymerizable photochromic monomer for the pupillary region and an amount of polymerizable non-photochromic monomer for the remainder of the contact lens in a casting mold. The photochromic and non-photochromic monomers can differ by their d.p., viscosity and/or d. To the concave half of a crown glass casting mold having a 6 base curvature was added 4 drops of SR 9036 and 2 drops of SR 348 monomer containing approx. 2% of a photochromic naphthopyran that exhibits a blue color when irradiated with UV light, and 0.5% of Irgacure-819. A lens having an outside diameter of about 1 in. or 2.54 cm, a clear lens body and a colored pupillary region of about 0.44 in. or 1.11 cm was obtained from the above polymer. The lens was exposed to UV radiation and the pupillary region became darker and after the UV radiation was discontinued, the pupillary region became less dark.

IT 138551-37 SP Sartomer 9036-Sartomer 348 copolymer

(manufacture of photochromic contact lenses)

RN 138551-37.8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1 phenyleneoxy-2,1-ethanediyl) ester; polymer with α,α' -[1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

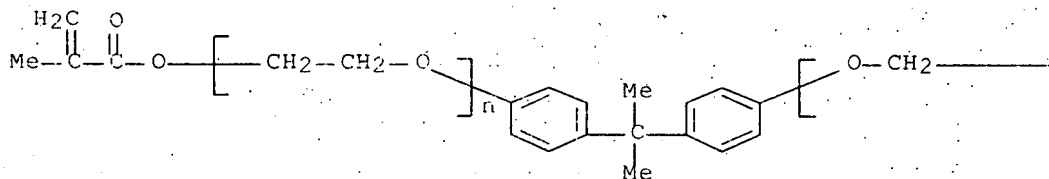
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CRN 41637-38-1

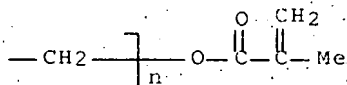
CME (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



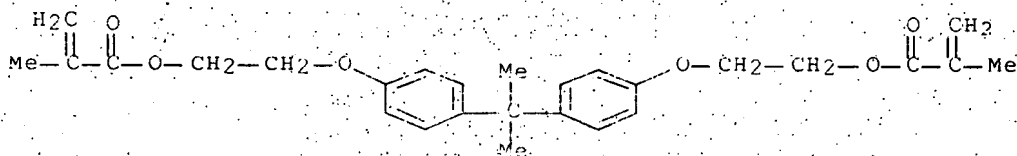
PAGE 1-B



CM 2

CRN 24448-20-2

CMF C27 H32 O6



IC ICM G02C007-04

ICS B29D011-00

INCL 351160000R; 254001700

CC 63-7 (Pharmaceuticals)

IT Photochromic materials

(eyeglass lenses; manufacture of photochromic contact lenses)

IT Contact lenses

Molds (forms)

Polymerization catalysts

Viscosity

(manufacture of photochromic contact lenses)

IT Eyeglass lenses

(photochromic; manufacture of photochromic contact lenses)

IT 138551-37-8P, Sartomer 5036-Sartomer 348 copolymer

(manufacture of photochromic contact lenses)

L24 ANSWER 11 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:347818 HCAPLUS Full-text

DOCUMENT NUMBER: 136:370720

TITLE: Plastic lenses bearing cured protective films with good stainability and resistance to impact, scratch and weather

INVENTOR(S): Iryo, Takeaki; Kinoshita, Atsushi; Mizuno,

PATENT ASSIGNEE(S): Hitoshi; Kanai, Toshihito
 SOURCE: Seiko Epson Corp., Japan
 Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002131702	A	20020509	JP 2000-319544	20001019
			<--	
PRIORITY APPLN. INFO.:			JP 2000-319544	20001019
			<--	

ED Entered STN: 09 May 2002

AB The lenses useful for eyeglass are made from the radiation-curable compns. containing: (A) CH₂:CHC₆H₄CH₂SXOH (X = C1-4 alkylene)/isocyanate reaction products, 10-70, (B) di(meth)acrylate esters of alkoxyated HOZCH₂SH [Z = (optionally halogenated) phenylene group] (Sic), 10-60, and (C) other unsatd. comonomers 1-60 parts and have been primed with a stainable layer and coated with a stainable silicone-based hard coat layer. Thus, adding Takenate 500 (m-xylylene diisocyanate) 188 to a mixture of 2-(4-vinylbenzylthio)ethanol and 2-(3-vinylbenzylthio)ethanol, 398, Bu₂Sn dilaurate 0.30 and hydroquinone monomethyl ether 0.06 g at 60° over 3 h and reacting at 80° for 5 h gave a 3-containing urethane (I). Molding a mixture of I 40, p-bis(β-methacryloyloxyethylthio)xylene 35, 2,2-bis(4-methacryloyloxydiethoxyphenyl)propane 15, benzyl methacrylate 10, 2-hydroxy-4-methoxybenzophenone 0.03, tri-Et phosphite 0.5, (2,4,6-trimethylbenzoyl)diphenylphosphine oxide 0.05 and tert-Bu peroxyisobutyrate 0.1 g gave lens which was then primed with a polyester polyol-based polyurethane layer and coated with a hard silicone layer to give a plastic lens with stainable surface.

IT 422569-83-3P.

(plastic lenses bearing cured protective films with good stainability and resistance to impact, scratch and weather)

RN 422569-83-3 HCAPLUS

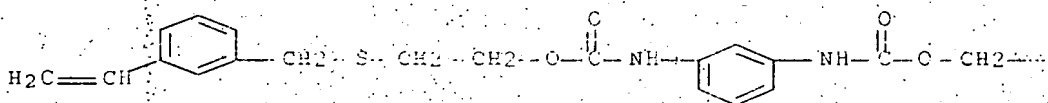
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethenediyl) ester, polymer with bis[2-[[[(3-ethenylphenyl)methyl]thio]ethyl] 1,3-phenylenebis[carbamate], bis[2-[[[(4-ethenylphenyl)methyl]thio]ethyl] 1,3-phenylenebis[carbamate], 1,4-phenylenebis(methylenethio-2,1-ethanedioyl) bis(2-methyl-2-propenoate) and phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

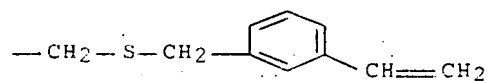
CRN 422569-82-2

CMF C30 H32 N2 O4 S2

PAGE 1-A



PAGE 1-B

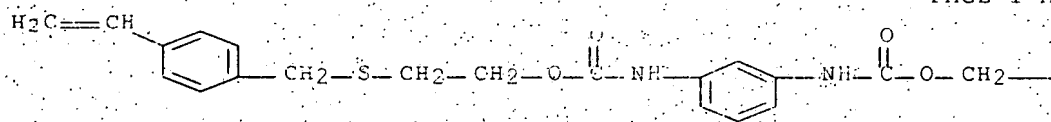


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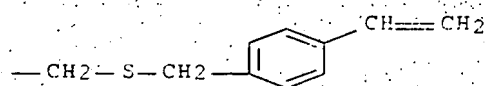
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CMF C3G H32 N2 O4 S2

PAGE 1-A



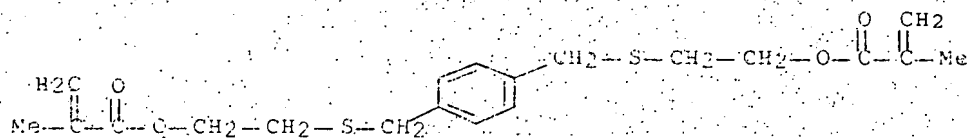
PAGE 1-B



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CRN 112503-98-7

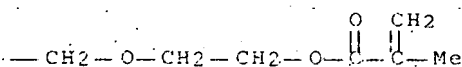
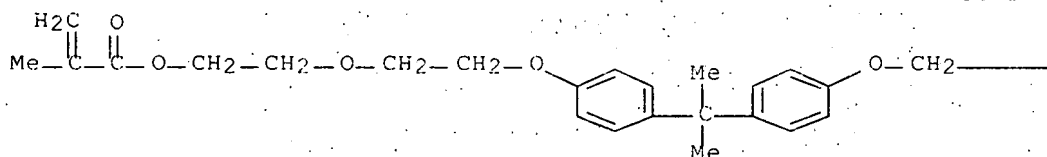
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CM 4

CRN 56744-60-6

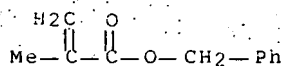
CMF C31 H40 O8



CM 5

CRN 2495-37-6

CMF C11 H12 O2



IC ICM G02C007-02

ICS C08F212-14; C08F220-38; C03J007-04; C05D183-04; G02B001-04;
G02B001-10; G02B001-11; B05D007-00; B05D007-02; C08L025-08

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 42, 63

IT Coating materials

Lenses

(plastic lenses bearing cured protective films with good
stainability and resistance to impact, scratch and weather)

IT 422569-33-3P

(plastic lenses bearing cured protective films with good
stainability and resistance to impact, scratch and weather)

L24 ANSWER 12 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:51908 HCAPLUS Full text

DOCUMENT NUMBER: 136:123714

TITLE: Method for incorporating additives in an
ophthalmic article by means of a supercritical
fluidINVENTOR(S): Baillet, Gilles; Cano, Jean-Paul; Magne,
Jean-Francois

PATENT ASSIGNEE(S): Fr.

SOURCE: U.S. Pat. Appl. Publ., 12 pp., Cont. in part of
U.S. Ser. No. 242,184, abandoned.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002006469	A1	20020117	US 2000-729648	20001204
			<--	
FR 2752462	A1	19980220	FR 1996-10229	19960814
			<--	
FR 2752462	B1	19981023		
WO 9807054	A1	19980219	WO 1997-FR1469	19970808
			<--	

W: AU, JP, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

US 2004018300	A1	20040129	US 2003-616407	20030709
			<--	
US 2005019485	A1	20050127	US 2004-921090	20040818
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PRIORITY APPLN. INFO.:

FR 1996-10229	A	19960814
<--		
WO 1997-FR1469	W	19970808
<--		
US 1999-242384	B2	19990212
<--		
US 2000-729648	B1	20001204
<--		
US 2003-616407	B1	20030709
<--		

ED Entered STN: 18 Jan 2002

AB The method comprises introducing into a reactor including a transparent polymer substrate containing a free plasticizer and the photochromic additive, supercrit. fluid and maintaining this fluid in the reactor for the time necessary for incorporating the photochromic additive into the article, removing the supercrit. fluid and recovering the ophthalmic article in which the photochromic additive has been incorporated. The composition containing ethoxybisphenol A dimethacrylate (2.5 ethoxy units) 43.5, PEG terminated at both ends by methacrylate 21.0, 1,3-diisopropenylbenzene 6.0, 2-phenoxyethyl methacrylate 20.5, PEG containing a benzoate ending at both ends 3.6, tri-Ph phosphite 0.3, di-Et pyrocarbonate 0.15, diisopropyl peroxydicarbonate 1.5, GO-tert-Bu O-2-ethylhexyl monoperoxydicarbonate 0.5 parts by weight was cured and the polymer was removed from the mold. The additive to be incorporated by using supercrit. fluids was a mixture of photochromic dyes.

IT 389124-S6-IP

(method for incorporating additives in ophthalmic article by means of a supercrit. fluid)

EN 389124-S6-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-phenylethyl ester, polymer with 1,3-bis(1-methylethenyl)benzene, α,α' -[1-(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME).

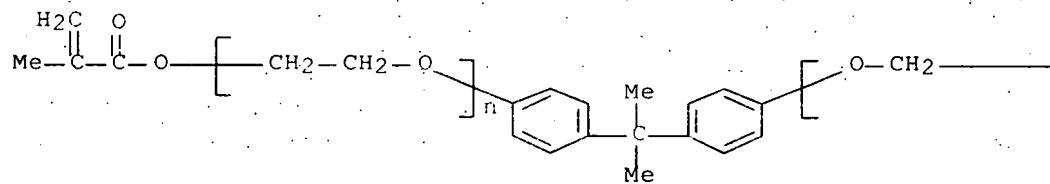
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CRN 41637-38-1

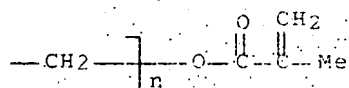
CMP (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCT PMS

PAGE 1-A



PAGE 1-B

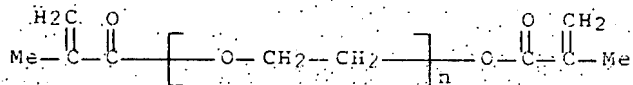


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

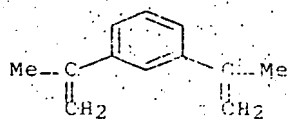
CCI PMS



CM 3

CRN 3748-13-8

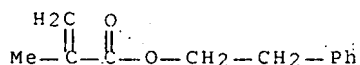
CMF C12 H14



CM 4

CRN 3683-12-3

CMF C12 H14 O2



IC ICM B05D005-06
ICS C23C016-00
INCL 427162000
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 42
IT Contact lenses
Eyeglass lenses
Glass transition temperature
Photochromic materials
Plasticizers
Supercritical fluids
(method for incorporating additives in ophthalmic article by means of a supercrit. fluid)
IT 389124-86-1P
(method for incorporating additives in ophthalmic article by means of a supercrit. fluid)

L24 ANSWER 13 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:26239 HCAPLUS Full-text
DOCUMENT NUMBER: 136:91025
TITLE: Plastic photochromic lenses for eyeglass with quick darkening and fading cycle
INVENTOR(S): Kadowaki, Shinichiro
PATENT ASSIGNEE(S): Hoya Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002006272	A	20020109	JP 2000-192967	20000627
JP 3892210	B2	20070314		
PRIORITY APPLN. INFO:			JP 2000-192967	20000627

ED Entered STN: 10 Jan 2002

AB The lenses contain a mixture of (A) photochromic dyes having main absorption for wavelength of 540-640 nm during the color transition in the lens resin, absorption half width 2120 nm and fading half-life of 490 s; (B) photochromic dyes having main absorption for wavelength of 420-540 nm and (C) photochromic dyes having main absorption for wavelength of 540-640 nm and fading half-life at 20° 2-20 times of that of A. Thus, mixing 2,2-bis[4-(methacryloxyethoxy)phenyl]propane 50 with triethylene glycol dimethacrylate 40, glycidyl methacrylate 10, 2,4-diphenyl-4-methyl-1-pentene 1, CNN-7 (photochromic dye having blue color, main absorption at 610 nm, absorption half width 160 nm, fading half-life 55 s) 0.040, CNN-4 (photochromic dye having yellow color, main absorption at 440nm, fading half-life 300 s) 0.020, CNN-3 (photochromic dye having blue color, main absorption at 592 nm, absorption half width 85 nm and fading half-life 125 s) 0.005, tert-Bu peroxyneodecanate 0.50 and KF 353A (silicone release agent) 0.0001 part,

molding the resulting mixture and annealing gave a lens test piece with gray color, fading half-life 55 s and stable coloration.

IT 386705-23-3P, 2,2-Bis[4-(methacryloxyethoxy)phenyl]propane;
glycidyl methacrylate; triethylene glycol dimethacrylate copolymer
386705-24-4P, Benzyl acrylate; 2,2-bis[4-(methacryloxyethoxy)phenyl]propane; glycidyl methacrylate; triethylene glycol dimethacrylate-trimethylolpropane trimethacrylate copolymer
(plastic photochromic lenses for eyeglass with quick darkening and fading cycle)

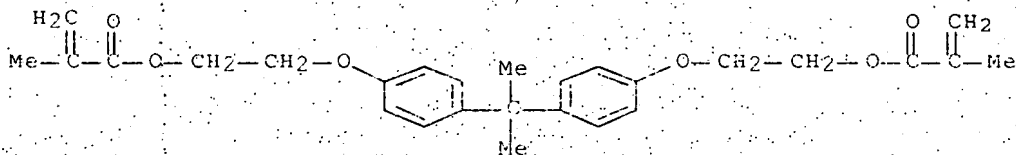
RN 386705-23-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and oxiranylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 24448-20-2

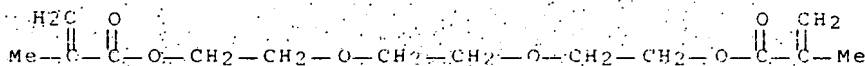
CMF C27 H32 O6



CM 2

CRN 109-16-0

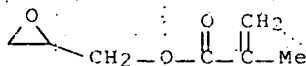
CMF C14 H22 O6



CM 3

CRN 106-91-2

CMF C7 H10 O3



RN 386705-24-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl)

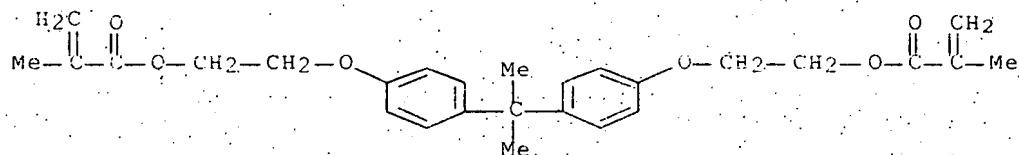
10/549,696

ester, polymer with 2-ethyl-2-[[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl bis(2-methyl-2-propenoate), (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate), oxiranylmethyl 2-methyl-2-propenoate and phenylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 24448-20-2

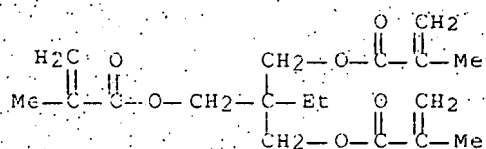
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CM 2

CRN 3290-92-4

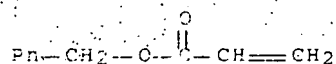
CMF C18 H26 O6



CM 3

CRN 2495-35-4

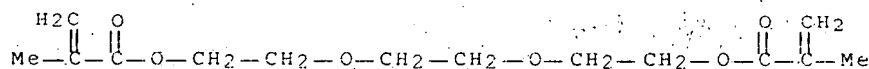
CMF C10 H10 O2



CM 4

CRN 109-16-0

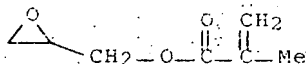
CMF C14 H22 O6



CM 5

CRN 106-91-2

CMF C7 H10 O3



IC ICM G02C007-10
 ICS C08FG02-44; C08J007-00; C08J007-04; C08K005-00; C08L101-00
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s): 38, 41
 IT Photochromic materials
 (dyes; plastic photochromic lenses for eyeglass with quick darkening and fading cycle)
 IT Eyeglass lenses
 (plastic photochromic lenses for eyeglass with quick darkening and fading cycle)
 IT 386705-23-3P, 2,2-Bis[4-(methacryloxyethoxy)phenyl]propane; glycidyl methacrylate; triethylene glycol dimethacrylate copolymer
 386705-24-4P, Benzyl acrylate; 2,2-bis[4-(methacryloxyethoxy)phenyl]propane; glycidyl methacrylate; triethylene glycol dimethacrylate-trimethylolpropane trimethacrylate copolymer
 (plastic photochromic lenses for eyeglass with quick darkening and fading cycle)

L24 ANSWER 14 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 2001:152534 HCAPLUS Full-text

DOCUMENT NUMBER: 134:212773

TITLE: Homopolymers containing crosslinkers and ocular implants made therefrom

INVENTOR(S): Liao, Xiuqiao; Gulati, Vijay

PATENT ASSIGNEE(S): Medennium, Inc., USA

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXDZ

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001013972	A1	20010301	WO 2000-US23295	20000824

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU,
 CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV,

MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE,
 SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
 BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6271281 B1 20010807 US 1999-383837 19990826

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CA 2382458 A1 20010301 CA 2000-2382458 20000824

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EP 1206293 A1 20020522 EP 2000-959377 20000824

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EP 1206293 B1 20060705

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
 PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 2003507133 T 20030225 JP 2001-518105 20000824

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AT 332155 T 20060715 AT 2000-959377 20000824

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ES 2265972 T3 20070301 ES 2000-959377 20000824

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US 2003055122 A1 20030320 US 2001-865845 20010525

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US 2004034118 A1 20040219 US 2002-279555 20021024

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US 6780899 B2 20040824

PRIORITY APPLN. INFO.:

US 1999-383837 A 19990826

<--

WO 2000-US23295 W 20000824

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US 2001-865845 B1 20010525

<--

ED Entered STN: 02 Mar 2001

AB Ocular implants composed of homopolymers containing stable elasticity inducing crosslinkers which contain rigid chemical groups disposed between at least two polymerizable ethylenically unsatd. chemical groups are disclosed. These ocular implants are stable, elastic, soft, optically clear, have high refractive index and low-tack surfaces. Intraocular lenses were made by polymerization of ethylene glycol Ph ether acrylate, bisphenol A ethoxylate dimethacrylate, and 2-(4-benzoyl-3-hydroxyphenoxy)ethyl acrylate. The lenses were soft, had refractive indexes as high as 1.559 with a glass transition temperature of around 5-10°.

IT 328233-84-7P 328238-44-4P

(homopolymers containing crosslinkers and ocular implants made therefrom)

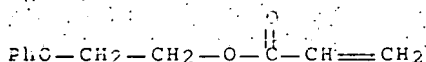
RN 328233-84-7 HCAPLUS

CN 2-Propenoic acid, 2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester, polymer with α,α' -[[1-methylethylidene]di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxypoly(oxy-1,2-ethanediyl)] and 2-phenoxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 48145-04-6

CMF C11 H12 O3



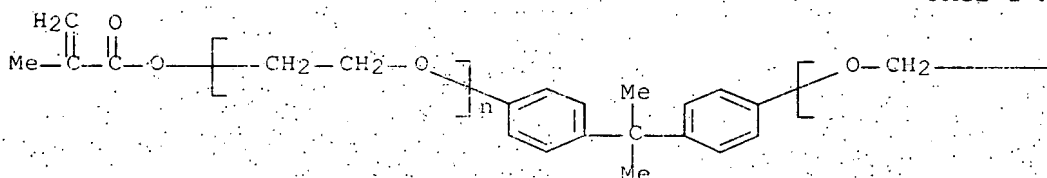
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CRN 41637-38-1

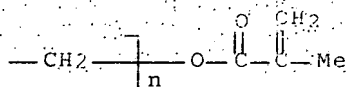
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



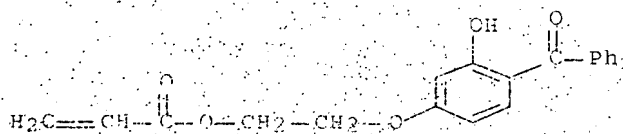
PAGE 1-B



CM 3

CRN 16432-81-8

CMF C18 H16 O5



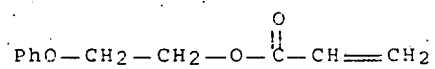
RN 328238 44-4 HCAPLUS

CN 2-Propenoic acid, 2-(4-benzoyl-3-hydroxyphenoxy)ethyl ester, polymer with α, α' -[[(1-methylethylidene)di-4,1-phenylene]bis[α [(2-methyl-1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)]] and 2-phenoxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 48145-04-6

CMF C11 H12 O3



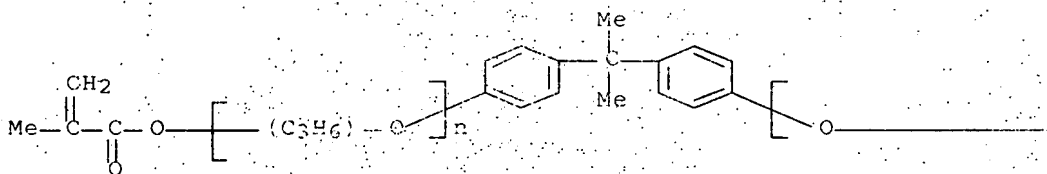
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CRN 42610-22-0

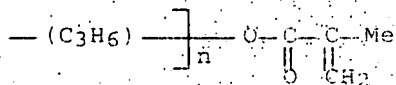
CMF (C3 H6 O)n (C3 H6 O)n C23 H24 O4

CCI IDS, PMS

PAGE 1-A



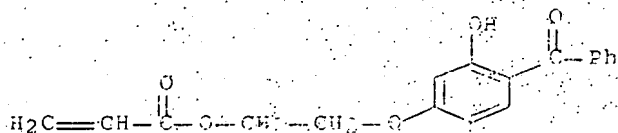
PAGE 1-B



CM 3

CRN 16432-81-8

CMF C18 H16 O5



IC ICM A61L027-50

CC 63-7 (Pharmaceuticals)

Section cross-reference(s) : 38

IT Crosslinking agents
 Glass transition temperature
 Intraocular lenses
 Refractive index
 UV radiation
 (homopolymers containing crosslinkers and ocular implants made therefrom)

IT 328233-84-7P 328238-44-4P
 (homopolymers containing crosslinkers and ocular implants made therefrom)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 15 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:790745 HCAPLUS Full-text

DOCUMENT NUMBER: 133:355242

TITLE: Composite ophthalmic lens made from two polymer films

INVENTOR(S): Jiang, Peiqi; Cabeza, Stephane; Menduni, Gilbert

PATENT ASSIGNEE(S): Essilor International Compagnie Generale d'Optique, Fr.

SOURCE: PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000067050	A1	20001109	WC 2000-FR1160	20000428

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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, EF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2793038	A1	20001103	FR 1999-5466	19990429
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FR 2793038	B1	20020125		
EP 1177465	A1	20020206	EP 2000-925356	20000428

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EP 1177465	B1	20060405		
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AT 322698	T	20060415	AT 2000-925356	20000428
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US 2002164484	A1	20021107	US 2001-37802	20011029
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US 6709107	B2	20040323		
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PRIORITY APPLN. INFO.: FR 1999-5466 A. 19990429

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WO 2000-FR1160 W 20000428

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ED Entered STN: 10 Nov 2000

AB The invention concerns a composite ophthalmic lens comprising a first film at least 200 μm thick, forming a front part of said lens, of a polymer material with a refractive index not less than 1.60 and having a front face forming a front optical surface, and a second film, at least 200 μm thick, of a second polymer material forming the rear part of said lens and having a rear face forming a rear optical surface, the interface between said two films forming an optical surface parallel to the rear optical surface. The invention is applicable to lenses of spectacles. A composite ophthalmic lens was prepared from a polythiourethane film and a poly(allyl carbonate) film.

IT 103183-05-7P

(composite ophthalmic lens made from two polymer films)

RN 103183-05-7 HCAPLUS

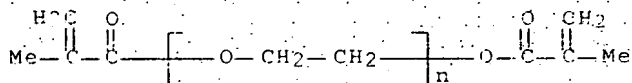
CN 2-Propenoic acid, 2-methyl-, 1,1'-[(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)] ester, polymer with α -(2-methyl-1-oxo-2-propen-1-yl)- ω -[(2-methyl-1-oxo-2-propen-1-yl)oxy]poly(oxy-1,2-ethanediyl) (CA INDEX NAME)

CM 1

CRN 25852-47-5

CMF (C2 H4 O) $_n$ C8 H10 O3

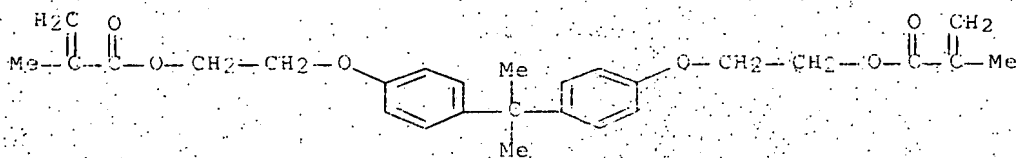
CCI PMS



CM 2

CRN 24448-20-2

CMF C27 H32 O6



IC ICM G02B001-04

ICS G02C007-02; B29D011-00

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 38

IT Eyeglass lenses

Eyeglasses

(composite ophthalmic lens made from two polymer films)

IT 25656-90-0P, CR39 103183-05-7P 115959-74-5P

(composite ophthalmic lens made from two polymer films)

REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE. FORMAT.

L24 ANSWER 16 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2000:421198 HCAPLUS Full-text
 DOCUMENT NUMBER: 133:59236
 TITLE: Crosslinked polymers and refractive devices formed therefrom for intraocular lenses
 INVENTOR(S): Muir, Andrew Victor Graham; Rowan, Lee; Jones, Stephen Alister; Stedman, John Charles
 PATENT ASSIGNEE(S): Biocompatibles Limited, UK
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035980	A1	20000622	WO 1999-GB4206	19991213
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2353917	A1	20000622	CA 1999-2353917	19991213
EP 1141054	A1	20011010	EP 1999-959593	19991213
EP 1141054	B1	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002532588	T	20021002	JP 2000-588235	19991213
AU 756346	B2	20030123	AU 2000-16726	19991213
NZ 512100	A	20030926	NZ 1999-512100	19991213
AT 260306	T	20040315	AT 1999-959593	19991213
US 6767979	B1	20040727	US 2001-857845	20010920
PRIORITY APPLN. INFO.:				
			EP 1998-310163	A 19981211
			WO 1999-GB4206	W 19991213

ED Entered STN: 23 Jun 2000

AE A polymer is formed of ethylenically unsatd. monomers including a zwitterionic monomer, an aromatic monomer and a crosslinking monomer. Preferably the crosslinking monomer includes at least one aromatic group containing compound and at least one aliphatic group containing compound. The polymer is water-swellaable and a hydrogel has optical and mech. properties rendering it suitable for use as an intraocular refractive device such as an intraocular lens. A copolymer was prepared from DE acrylate, 2-methacryloyloxyethyl-2-trimethylammonium ethylphosphate inner salt, lauryl Methacrylate, ethylene glycol dimethacrylate, and bisphenol-A dimethacrylate.

IT 277317-50-7P 277317-52-9P 277317-53-0P
277317-54-1P 277317-57-4P

(crosslinked polymers and refractive devices formed therefrom for intraocular lenses)

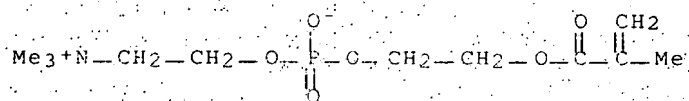
RN 277317-50-7 HCAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate), (1-methylethylidene)di-4,1-phenylene bis(2-methyl-2-propenoate) and phenylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

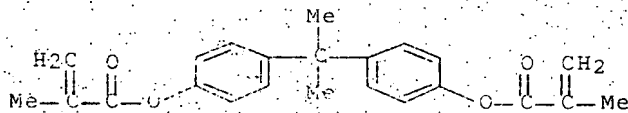
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CM 2

CRN 3253-39-2

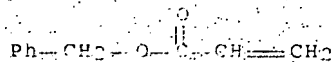
CMF C23 H24 O4



CM 3

CRN 2495-35-4

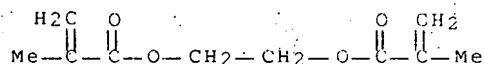
CMF C10 H10 O2



CM 4

CRN 97-90-5

CMF C10 H14 O4



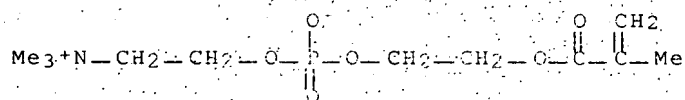
RN 277317-52-9 HCAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with 1,2-ethanediyl bis(2-methyl-2-propenoate), 2-fluoroethyl 2-methyl-2-propenoate, (1-methylethylidene)di-4,1-phenylene bis(2-methyl-2-propenoate) and phenylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

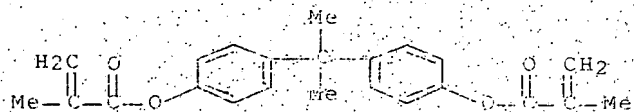
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CM 2

CRN 3253-39-2

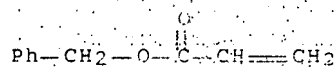
CMF C23 H24 O4



CM 3

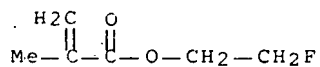
CRN 2495-35-4

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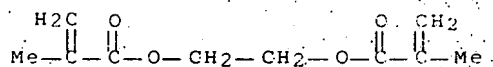
CM 4

CRN 686-54-4
CMF C6 H9 F O2



CM 5

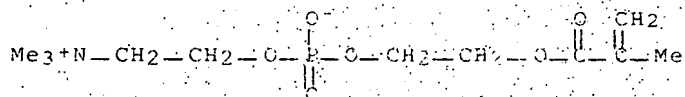
CRN 97-90-5
CMF C10 H14 O4



RN 277317-53-0 HCAPLUS
CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with dodecyl 2-methyl-2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), (1-methylethylidene)di-4,1-phenylene bis(2-methyl-2-propenoate) and phenylmethyl 2-propenoate (9CI). (CA INDEX NAME)

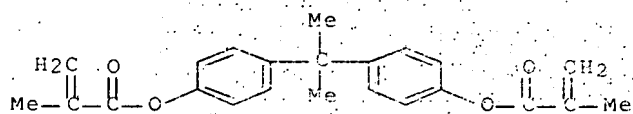
CM 1

CRN 67881-98-5
CMF C11 H22 N O6 P



CM 2

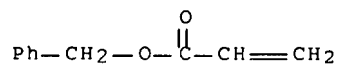
CRN 3253-39-2
CMF C23 H24 O4



CM 3

CRN 2495-35-4

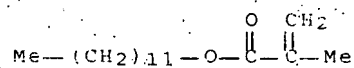
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CM 4

CRN 142-90-5

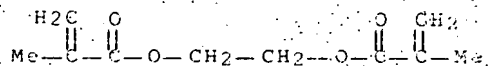
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CM 5

CRN 97-90-5

CMF C10 H14 O4



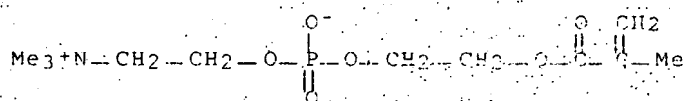
RN 277317-54-1 HCAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with (1-methylethylidene)di-4,1-phenylene bis(2-methyl-2-propenoate) and phenylmethyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

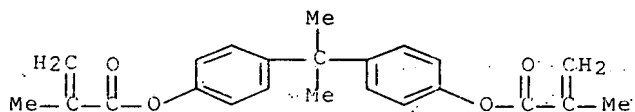
CMF C11 H22 N O6 P



CM 2

CRN 3253-39-2

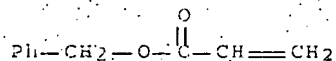
CMF C23 H24 O4



CM 3

CRN 2495-35-4

CMF C10 H10 O2



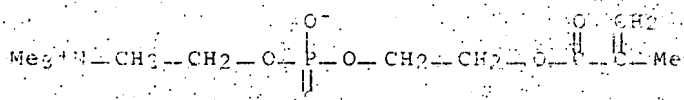
RN 277317-57-4 HCAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, inner salt, 4-oxide, polymer with dodecyl 2-methyl-2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), 2-fluoroethyl 2-methyl-2-propenoate, (1-methylethylidene)di-4,1-phenylene bis(2-methyl-2-propenoate) and phenylmethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 67881-98-5

CMF C11 H22 N O6 P

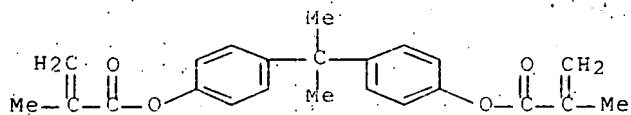


CM 2

CRN 3253-39-2

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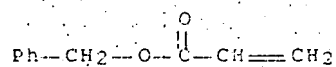
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CM 3

CRN 2495-35-4

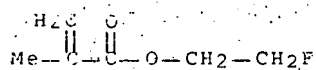
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CM 4

CRN 686-54-4

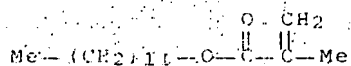
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CM 5

CRN 142-90-5

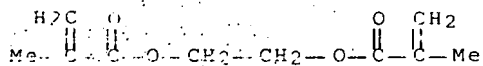
CMF C16 H30 O2



CM 6

CRN 97-90-5

CMF C10 H14 O4



IC ICM C08F246-00
ICS G02B001-04
CC 35-4 (Chemistry of Synthetic High Polymers).
Section cross-reference(s): 63
IT Intraocular lenses
(crosslinked polymers and refractive devices formed therefrom for intraocular lenses)
IT 277317-50-7P 277317-52-9P 277317-53-0P
277317-54-1P 277317-57-4P 277317-60-9P
277317-62-1P
(crosslinked polymers and refractive devices formed therefrom for intraocular lenses)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 17 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:596964 HCAPLUS Full-text
DOCUMENT NUMBER: 131:233599
TITLE: Modification of medical polymers and polymer base materials for medical use
INVENTOR(S): Hogi, Tsuneo
PATENT ASSIGNEE(S): Asahi Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11255925	A	19990921	JP 1998-75087	19980310
JP 3444781	B2	20030908		
PRIORITY APPLN. INFO.			JP 1998-75087	19980310

ED Entered STN: 22 Sep 1999

AB A method for modification of medical polymers involves: [1] placing polymer materials, additives practically immiscible with the polymer materials, and low mol. weight compds. soluble in supercrit. fluids in a pressure container, [2] soaking the polymer base materials [dissolved in supercrit. fluid] in polymer swelling promoters, [3] allowing the supercrit. fluid to flow through the container to sep. the polymer swelling promoters and [4] reducing the pressure in the container to incorporate additives into the base materials. The materials are useful for manufg contact lenses, eye glass lenses, intraocular lenses and catheters.

IT 160605-82-3P
(modification of medical polymers and polymer base materials for medical use)

RN 160605-82-3 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and α,α' -bis[(1-methylethylidene)di-4,1-phenylene]bis[o-[(2-methyl-1-oxo-2-propenyl)oxyl]poly(oxy-1,2-ethanediyl)] (SCI) (CA INDEX NAME)

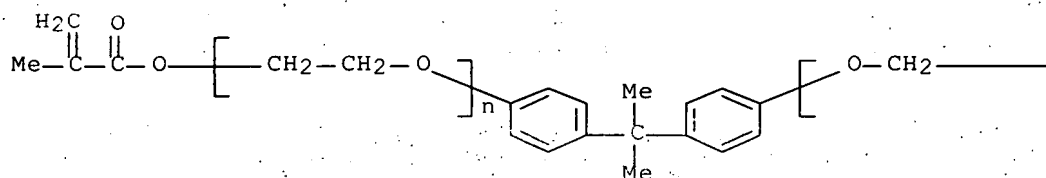
CM 1

CRN 41637-38-1

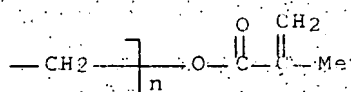
10/549,696

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A



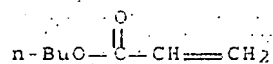
PAGE 1-B



CM 2

CRN 141-32-2

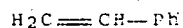
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



IC ICM C08J007-00
ICS A61L027-00; A61L029-00; C08L033-04; C08L083-00; G02E001-04;
G02C007-04
CC 63-7 (Pharmaceuticals)
IT Biological materials
Contact lenses
Dyes
Eyeglass lenses
Intraocular lenses
Medical goods

Photochromic materials

Softening agents

Supercritical fluids

Swelling agents

UV stabilizers

(modification of medical polymers and polymer base materials for medical use)

IT 79-10-7DP, Acrylic acid, copolymers with siloxanyl methacrylate and fluoromethacrylate, modified 79-41-4DP, MethAcrylic acid, copolymers with Me acrylate siloxanyl methacrylate and fluoromethacrylate, modified 80-62-6DP, Methyl Methacrylate, copolymers with fluoromethacrylate and acrylic acid, modified 18358-13-9DP, Methacrylate, siloxanyl and fluoro-, copolymers with acrylic acid, modified, biological studies 160605-82-3P

(modification of medical polymers and polymer base materials for medical use)

L24 ANSWER 16 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:439341 HCAPLUS Full-text

DOCUMENT NUMBER: 131:78488

TITLE: Ophthalmic lens comprising acrylic polymers

INVENTOR(S): Leboeuf, Albert R.; Karakelle, Mutlu

PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5922821	A	19990713	US 1997-910923	19970808

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PRIORITY APPLN. INFO.: US 1996-23623P P 19960809

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ED Entered STN: 19 Jul 1999

AB High refractive index copolymers suitable for use in ophthalmic lenses, such as foldable intraocular lenses, are disclosed. The high refractive index copolymers of the present invention consist essentially of (i) one or more monomers having the structure: $\text{CH}_2=\text{C}(\text{X})\text{CO}_2(\text{CH}_2)_m\text{YAr}$ (X is H or CH_3 ; m is 0-10; Y is nothing, O, S, or NR wherein R is H, CH_3 , $\text{C}_n\text{H}_{2n+1}$ (n = 1-10) iso-OC $_3$ H $_7$, C $_6$ H $_5$, or $\text{CH}_2\text{C}_6\text{H}_5$; Ar is any aromatic ring which can be unsubstituted or substituted with H, CH_3 , C $_2$ H $_5$, n-C $_3$ H $_7$, iso-C $_3$ H $_7$, OCH $_3$, C $_6$ H $_11$, Cl, Br, C $_6$ H $_5$, or $\text{CH}_2\text{C}_6\text{H}_5$); and (ii) one or more monomers having the structure: $\text{CH}_2=\text{C}(\text{X})\text{CO}_2-((\text{CH}_2)_n\text{O})_m-[\text{Ar}-\text{Z}-\text{Ar}']_a-\text{O}-((\text{CH}_2)_n'\text{O})_{m'}-\text{COOCH}_2$ wherein: X, X' is independently H or CH_3 ; n, n' are independently 2 or 3; m, m' are independently 2-25; Ar, Ar' are independently as defined above; a is 1 or 2; and Z is $\text{C}(\text{CH}_3)_2$ or $\text{S}(\text{O})_2$. An intraocular lens was prepared by the polymerization of 2-phenylethyl acrylate 89.6, ethoxylated bisphenol diacrylate A 10.0, o-methallyltinuvin F 0.8, and t-Bu peroctoate 1 parts by weight. The T $_g$, tensile strength, and refractive index of the lens was 7.2°, 570 psi, and 1.5575.

IT 229176-53-8P

(ophthalmic lens comprising acrylic polymers)

RN 229176-53 9 HCAPLUS

CN 2-Propenoic acid, 2-phenylethyl ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxylpoly(oxyl-1,2-ethanediyl)] and 2-[5-methyl-2-[(2-methyl-2-propenyl)oxyl]phenyl]-2H-benzotriazole (9CI) (CA INDEX NAME)

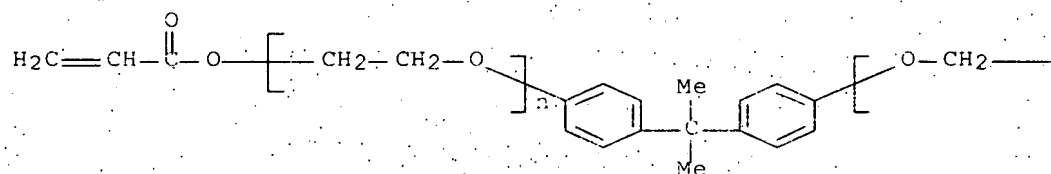
CM 1

CRN 64401-02-1

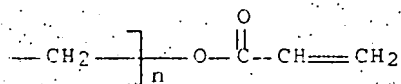
CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4

CCI PMS

PAGE 1-A



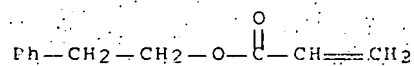
PAGE 1-B



CM 2

CRN 3530-36-7

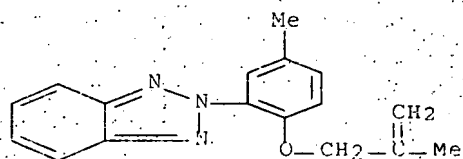
CMF C11 H12 O2



CM 3

CRN 2170-60-7

CMF C17 H17 N3 O



IC ICM C08F220-20

ICS C08F212-04; G02C007-02

INCL 526286000

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38

IT Crosslinking agents

Intraocular lenses

Polymerization catalysts

(ophthalmic lens comprising acrylic polymers)

IT 229176-53-8P

(ophthalmic lens comprising acrylic polymers)

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L24 ANSWER 19 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STM

ACCESSION NUMBER: 1999:421855 HCAPLUS Full-text

DOCUMENT NUMBER: 131:63498

TITLE: Synthetic resin lens and process for producing the same

INVENTOR(S): Machida, Katsuichi; Shouji, Masuhiro

PATENT ASSIGNEE(S): Kureha Kagaku Kogyo Kabushiki Kaisha, Japan

SOURCE: PCT Int. Appl., 42 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932907	A1	19990701	WO 1998-JP5767	19981221

W: JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,

NL, PT, SE

PRIORITY APPLN. INFO.: JP 1997-353000 A 19971222

ED Entered STM: 08 Jul 1999

AB The invention relates to a synthetic resin lens which has a high refractive index, a low sp. gr., and excellent transparency, is reduced in the dispersion of light, and is easily molded through cast polymerization without causing the sealing material to dissolve away or be damaged. The synthetic resin lens is characterized by being obtained by polymerizing a monomer mixture comprising [A] a polyfunctional (meth)acrylate having a urethane bond, [B] divinylbenzene, and [C] a polythiol compound using a radical polymerization initiator.

IT 228247-04-9P

(synthetic resin lens and process for producing the same).

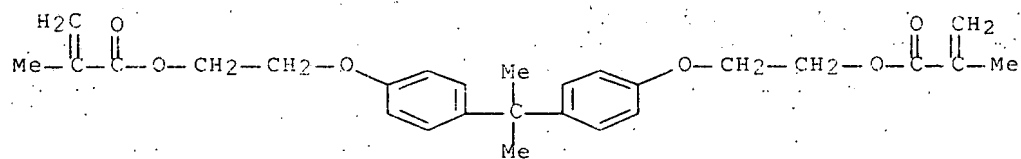
RN 228247-04-9 HCAPLUS

CM 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester; polymer with 1,3-bis(isocyanatomethyl)benzene, 2,2-bis[(3-mercapto-1-oxopropoxy)methyl]-1,3-propanediyl bis(3-mercaptopropanoate), diethenylbenzene, 2-hydroxy-3-phenoxypropyl 2-propenoate and 2,2'-[(1-methylethylidene)bis[(2,6-dibromo-4,1-phenylene)oxy]]bis[ethanol] (9CI) (CA INDEX NAME)

CM 1

CRN 24448-20-2

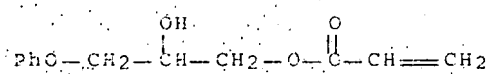
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CM 2

CRN 16969-10-1

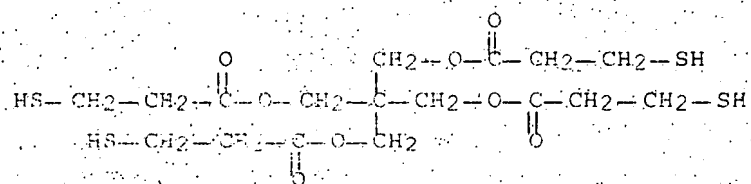
CMF C12 H14 O4



CM 3

CRN 7575-23-1

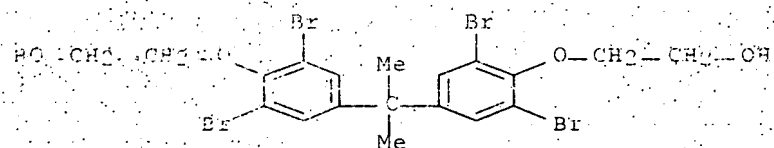
CMF C17 H28 O8 S4



CM 4

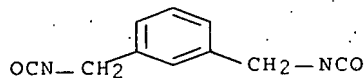
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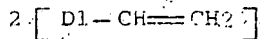
CM 5

CRN 3634-83-1
CMF C10 H8 N2 O2



CM. 6

CRN 1321-74-0
CMF C10 H10
CCI IDS



IC ICM G02B001-04
ICS C08F290-06; C08F220-34; C08G079-04; C08G018-67
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 38
IT Eyeglass lenses
Lenses
(synthetic resin lens and process for producing the same)
IT 228247-03-8P 228247-04-9P 228247-05-0P
(synthetic resin lens and process for producing the same)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L24 ANSWER 20 OF 49 HCAPLUS. COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999-378511 HCAPLUS Full-text
DOCUMENT NUMBER: 131-78495
TITLE: Polymerizable compositions for eyeglass lenses and
lenses therefrom
INVENTOR(S): Makino, Shinji; Motonaga, Akira; Morita, Koji
PATENT ASSIGNER(S): Mitsubishi Rayon Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11158229	A	19990615	JP 1997-328264	19971128

JP 3524739

B2

20040510

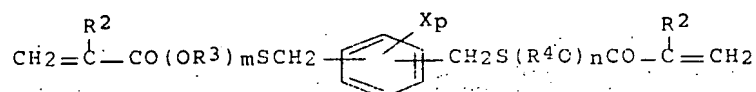
PRIORITY APPLN. INFO.:

JP 1997-328264

19971128

ED Entered STN: 18 Jun 1999

GI



AB The compns. contain 10-70 parts (A) S-containing urethane-vinyl compds., prepared from $\text{CH}_2=\text{CHOC}_6\text{H}_4\text{CH}_2\text{SR}^1\text{OH}$ ($\text{R}^1 = \text{C1-4 hydrocarbyl}$) and isocyanates, 30-90 parts (B) (meth)acrylates, and (C) ≥ 1 radical polymerization initiators selected from radiation-sensitive radical polymer initiators and heat-sensitive radical polymerization initiators at 0.005-5 parts [based on 100 parts (A) + (B)], and (B) contain bis(meth)acrylates I ($\text{R}^2 = \text{H, Me; R}^3, \text{R}^4 = \text{C1-4 hydrocarbyl; Xp} = \text{Cl, Br, I; m, n} = 1-5$) at 10-60 parts based on 100 parts (A) + (B). Also claimed are lenses showing refractive index ≥ 1.58 manufactured by curing the compns. with active energy and/or heat. The lenses have high transparency, heat resistance, chemical resistance, weatherability, surface hardness, impact resistance, and show low yellowing just after curing. A mixture of 2-(4-vinylbenzylthio)ethanol and 2-(3-vinylbenzylthio)ethanol was treated with Takenate 500 (m-xylylene diisocyanate) in the presence of dibutyltin dilaurate and hydroquinone monomethyl ether at 80° for to give S-containing urethane-vinyl compound. A composition containing the vinyl compound 40, p-bis(β -methacryloyloxyethylthio)xylylene 35, 2,2-bis(4-acryloyloxydiethoxyphenyl)propane 15, benzyl methacrylate 10, tri-Et phosphite 0.5, bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate 0.5, 2,4,6-trimethylbenzoyldiphenylphosphine oxide 0.05, and tert-Bu peroxyisobutyrate 0.1 g was irradiated with UV in a mold and heated at 130° for 1 h to give a lens with refractive index 1.598.

IT 228415-10-9P 228415-11-0P 228415-12-1P
228415-13-2P 228415-14-3P 228415-15-4P
228415-16-5P 228415-17-6P 228415-18-7P

(polymerizable compns. containing S-containing diacrylates for eyeglass lenses)

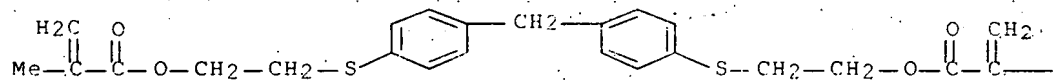
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CRN 228415-09-6

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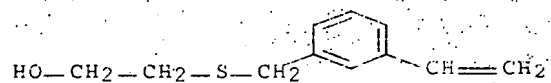


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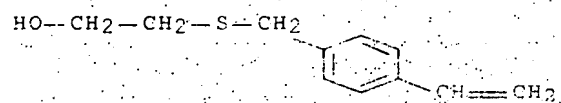
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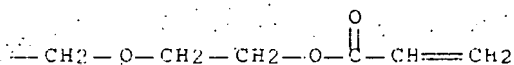
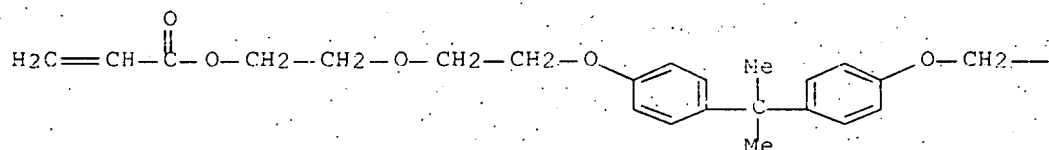
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CM 4

CRN 56361-55-8

CMF C29 H36 O S

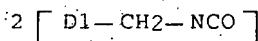


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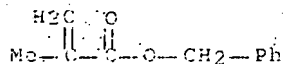
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CM 6

CRN 2495-37-6

CMF C11 H12 O2



RN 228415-11-0 HCAPLUS

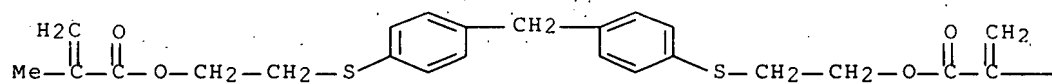
CN 2-Propenoic acid, 2-methyl-, methylenebis(4,1-phenylenethio-2,1-ethanediyl) ester, 2-[4-(1-methyl-1-phenylethyl)phenoxy]ethyl ester, polymer with 2-[[[(3-ethenylphenyl)methyl]thio]ethanol, 2-[[[(4-ethenylphenyl)methyl]thio]ethanol, 2-isocyanatoethyl 2-methyl-2-propenoate and 2-[4-(1-methyl-1-phenylethyl)phenoxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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10/549,696

CRN 228415-09-6
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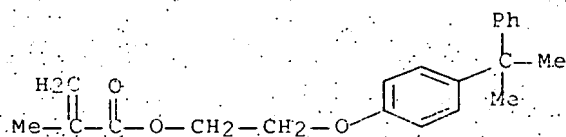


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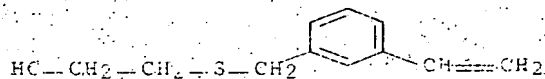
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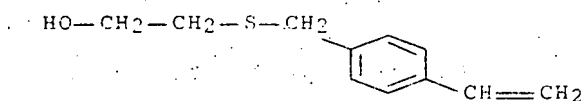
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CMF C11 H14 O S



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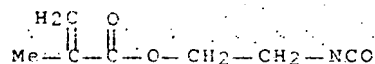
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CM 5

CRN 30674-80-7

CMF C7 H9 N O3



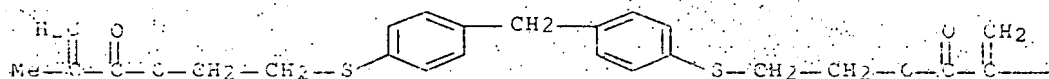
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CM 1

CRN 228415-09-6

CMF C25 H28 O4 S2



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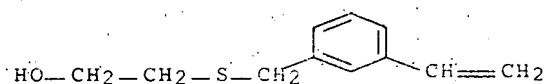
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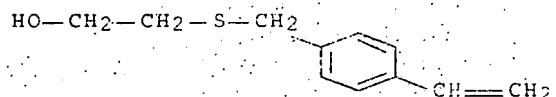
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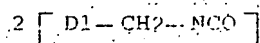


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CRN 25854-16-4

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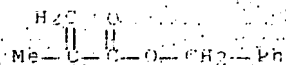
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CRN 2495-37-6

CMF C11 H12 O2



RN 228415-13-2 HCAPLUS

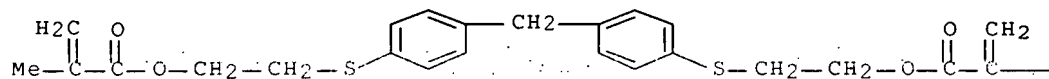
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CM 1

CRN 228415-09-6

CMF C25 H28 O4 S2

PAGE 1-A



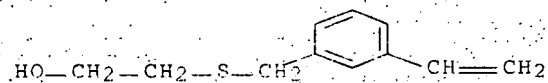
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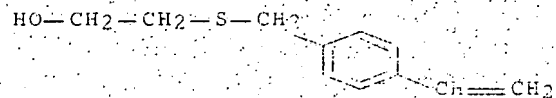
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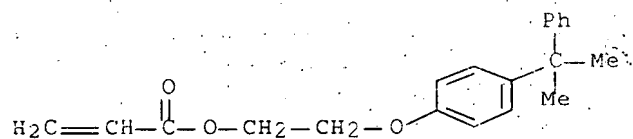
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CM 4

CRN 86148-03-5

CMF C20 H22 O3



CM 5

CRN 25854-16-4

CMF C10 H8 N2 O2

CCI IDS



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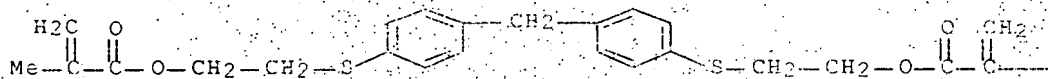
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CM 1

CRN 228415-09-6

CMF C25 H28 O4 S2

PAGE 1-A



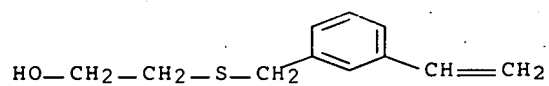
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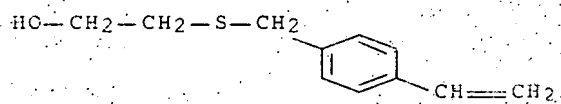
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CRN 129509-08-6
CMF C11 H14 O S



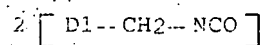
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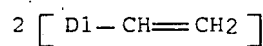
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CRN 25854-16-4
CMF C10 H8 N2 O2
CCI IDS



CM 5

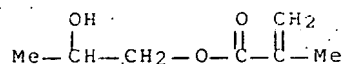
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CM 6

CRN 923-26-2

CMF C7 H12 O3



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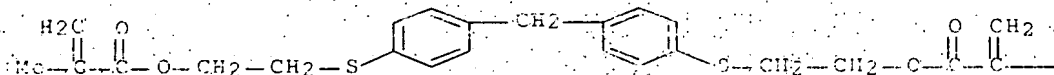
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CRN 228415-09-6

CMF C25 H28 O4 S2

PAGE 1-A



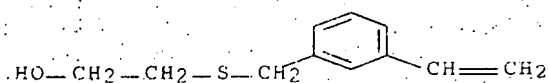
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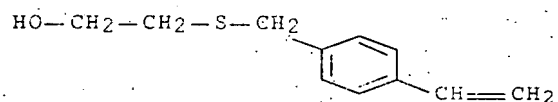
CMF C11 H14 O S



CM 3

CRN 129509-07-5

CMF C11 H14 O S



CM 4

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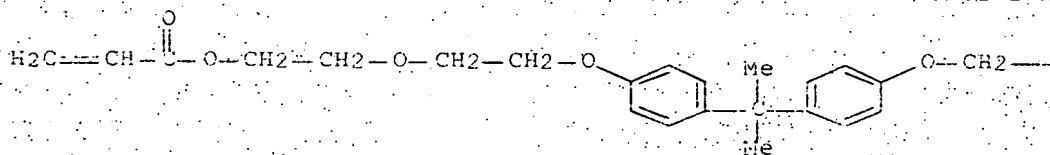
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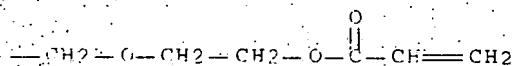
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CRN 56361-55-8

CMF C29 H36 O8



PAGE 1-A

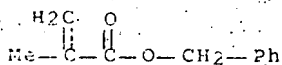


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CM 6

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CMF C13 H12 O2



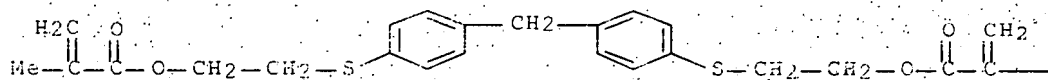
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CM 1

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CMF C25 H28 O4 S2

PAGE 1-A



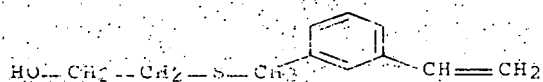
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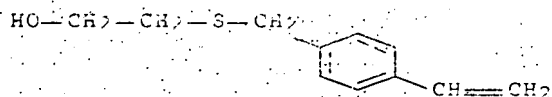
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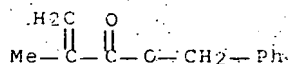
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CM 4
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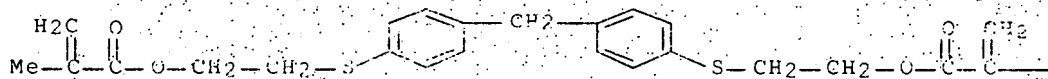
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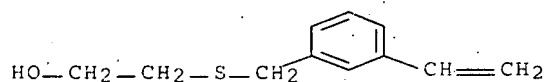


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PAGE 1-B

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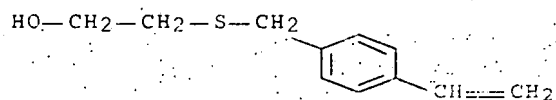
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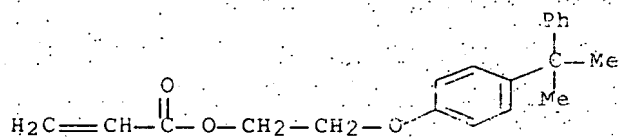
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CM 4

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CMF C20 H22 O3



CM 5

CRN 59966-87-9

CMF Unspecified

CCI MAN

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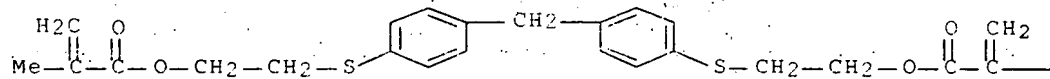
CN 2-Propenoic acid, 2-methyl-1-methylenebis(4,1-phenylenethio-2,1-ethanediyl) ester, polymer with diethenylbenzene, 2-[[[3-ethenylphenyl)methyl]thio]ethanol, 2-[[[4-ethenylphenyl)methyl]thio]ethanol, 2-hydroxypropyl 2-methyl-2-propenoate and Takenate 500 (9CI) (CA INDEX NAME)

CM 1

CRN 228415-09-6

CMF C25 H28 O4 S2

PAGE 1-A



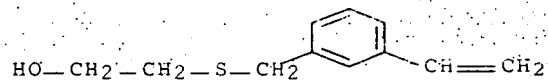
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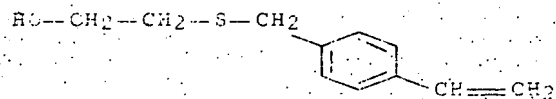
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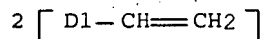
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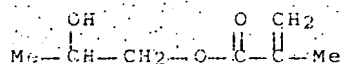
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CRN 923-26-2

CMF C7 H12 O3



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CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38, 73

IT Eyeglass lenses

(polymerizable compns. containing S-containing diacrylates for eyeglass lenses)

IT 228415-10-9P 228415-11-0P 228415-12-1P

228415-13-2P 228415-14-3P 228415-15-4P

228415-16-5P 228415-17-6P 228415-18-7P

(polymerizable compns. containing S-containing diacrylates for eyeglass lenses)

L24 ANSWER 21 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:126944 HCAPLUS Full-text

DOCUMENT NUMBER: 130:168799

TITLE: (Meth)acrylic polymers for ophthalmic lenses

INVENTOR(S): Leboeuf, Albert R.; Karakelle; Mutlu

PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA

SOURCE: PCT Int. Appl. 13 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY APP. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9907756	A1	19990210	WO 1997 US13971	19970812

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PT, SE

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PRIORITY APPLN. INFO.

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		<--

ED Entered STN: 26 Feb 1999

AB Polymers with high refractive index and suitable for use in ophthalmic lenses, such as foldable intraocular lenses, consist essentially of (i) one or more monomers having structure $\text{CH}_2:\text{C}(\text{X})\text{C}(\text{O})\text{O}(\text{CH}_2)_m\text{YAr}$ [$\text{X} = \text{H}, \text{CH}_3$; $m = 0-10$; $\text{Y} =$ nothing, $\text{O}, \text{S}, \text{NR}$; $\text{R} = \text{H}, \text{CH}_3, \text{C}_n\text{H}_{2n+1}$, isopropoxy, $\text{Ph}, \text{CH}_2\text{C}_6\text{H}_5$; $n = 1-10$; $\text{Ar} =$ aromatic ring (substituted with $\text{H}, \text{CH}_3, \text{C}_2\text{H}_5, n\text{-C}_3\text{H}_7, \text{iso-C}_3\text{H}_7, \text{OCH}_3, \text{C}_6\text{H}_{11}, \text{Cl}, \text{Br}, \text{C}_6\text{H}_5$, or $\text{CH}_2\text{C}_6\text{H}_5$)] and (ii) one or more monomers having structure $\text{CH}_2:\text{CH}(\text{X})\text{C}(\text{O})\text{O}[(\text{CH}_2)_n\text{O}](\text{ArZAr}')\text{aO}[(\text{CH}_2)_n'\text{O}]_m'\text{C}(\text{O})\text{CH}(\text{X}'):\text{CH}_2$ [$\text{X}, \text{X}' = \text{H}, \text{CH}_3$; $n, n' = 2, 3$; $m, m' = 2-25$; $\text{Ar}, \text{Ar}' =$ (substituted) aromatic ring; $a = 1, 2$; $Z = \text{C}(\text{CH}_3)_2, \text{SO}_2$].

IT 220416-42-28

(Meth)acrylic polymers for ophthalmic lenses

RN 220416-42-2 HCAPLUS

CN 2-Propenoic acid, 2-phenylethyl ester, polymer with $\alpha, \alpha' - \{[(1\text{-methylethylidene})\text{di-4,1-phenylene}]\text{bis}[\omega - \{(1\text{-oxo-2-propenyl})\text{oxy}\}\text{poly}(\text{oxy-1,2-ethanediyl})]\} (9\text{CI})$ (CA INDEX NAME)

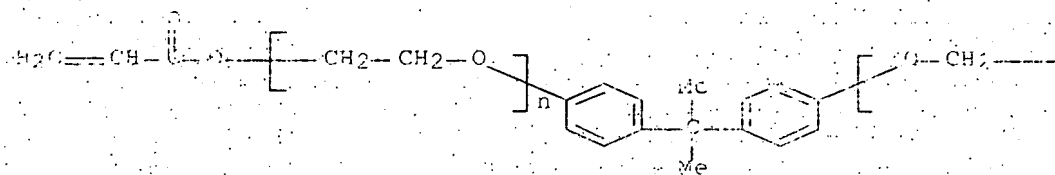
CM

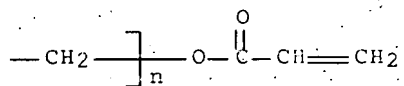
CRN 64401-02-1

CHE (C2 H4 O)n (C2 H4 O)n C21 H20 O4

CCI PMS

PAGE 1-A

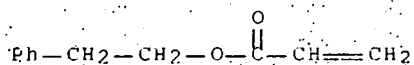




CM 2

CRN 3530-36-7

CMF C11 H12 O2



IC ICM C08F220-30

ICS G02B001-04; C08F220-38; C08F220-34; C08F220-13

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 38, 63

IT Intraocular lenses

((meth)acrylic polymers for ophthalmic lenses)

IT 220416-42-2P

((meth)acrylic polymers for ophthalmic lenses)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN THE
RE FORMAT

L24 ANSWER 22 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:712683 HCAPLUS Full text

DOCUMENT NUMBER: 130:29282

TITLE: Polymerizable compositions for eyeglass lenses

INVENTOR(S): Shijo, Masayuki; Matsumoto, Masamichi; Seki,
Michiko; Abe, Osamu

PATENT ASSIGNEE(S): Nikon Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10292045	A	19981104	JP 1997-102240	19970418

PRIORITY APPLN. INFO.: JP 1997-102240 19970418

ED Entered STN: 10 Nov 1998

AB The title compns. contain (A) materials from compds. having ≥ 2 polymerizable
double bonds in a mol., (B) materials from compds. having ≥ 2 SH groups in a

mol., and (C) reactive diluents of compds. having 1 polymerizable double bond in a mol., wherein the molar ratio of (double bonds of A)/(SH groups of B) is 1.5-20 and the molar ratio of (double bonds of A + SH groups of B)/(double bonds of C) is 0.1-20. Bisphenol A diacrylate 27, pentaerythrithiol 8, and Ph methacrylate 65 weight parts were polymerized in the presence of 2,4,6-trimethylbenzoyldiphenylphosphine oxide and Perbutyl O and cured in a mold by UV irradiation to give lenses refractive index 1.57, Abbe's number 37.7, sp. gr. 1.21, and good impact and heat resistance and dyeability.

IT 216439-70-2P 216439-71-3P 216439-72-4P
216439-73-5P 216439-74-6P 216439-75-7P

(polymerizable compns. containing (meth)acrylates and thiols for eyeglass lenses with high refractive index, impact and heat resistance, and dyeability)

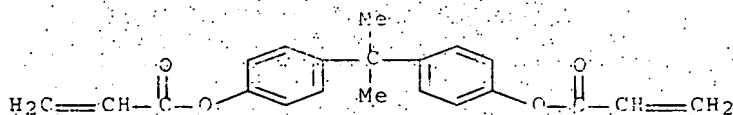
RN 216439-70-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, phenyl ester, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol and (1-methylethylidene)di-4,1-phenylene di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 4491-03-6

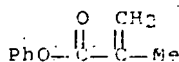
CMF C21 H20 O4



CM 2

CRN 2177-70-0

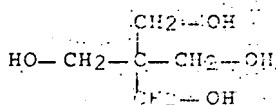
CMF C10 H10 O2



CM 3

CRN 115-77-5

CMF C5 H12 O4

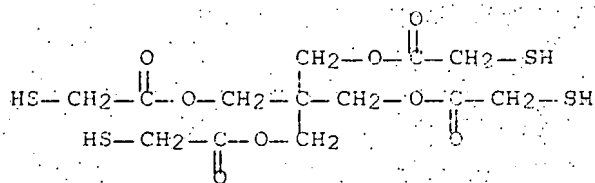


RN 216439-71-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
 2,2-bis[[(mercaptoacetyl)oxymethyl]-1,3-propanediyl
 bis(mercaptoacetate) and (1-methylethylidene)di-4,1-phenylene
 di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 10193-99-4

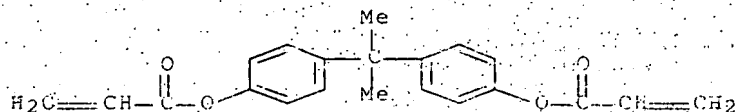
CMF C13 H20 O8 S4



CM 2

CRN 4491-03-6

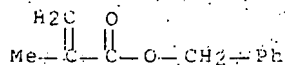
CMF C21 H20 O4



CM 3

CRN 2455-37-5

CMF C11 H12 O2

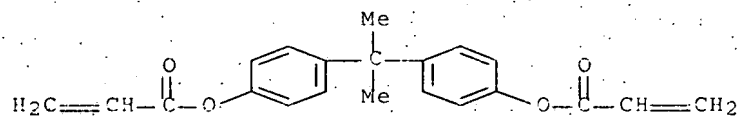


RN 216439-72-4 HCAPLUS
 CN 2-Propenoic acid, (1-methylethylidene)di-4,1-phenylene ester, polymer
 with 1-chloro-4-ethenylbenzene and 2,2'-thiobis[ethanethiol] (9CI)
 (CA INDEX NAME)

CM 2

CRN 4491-03-6

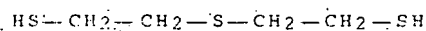
CMF C21 H20 O4



CM 2

CRN 3570-55-6

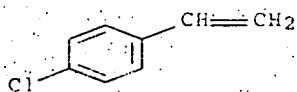
CMF C4 H10 S3



CM 3

CRN 1073-67-2

CMF C8 H7 Cl



RN 216439-73-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, phenyl ester, polymer with
2,2-bis(hydroxymethyl)-1,3-propanediol and α,α' -
(sulfonyldi-4,1-phenylene) bis[m-1(1-oxo-2-propenyl)oxy]poly(oxy-
1,2-ethanediyl)] (9CI) (CA INDEX NAME)

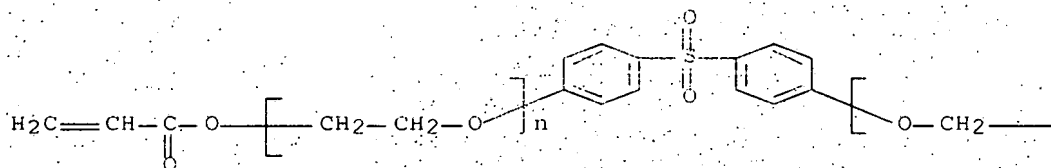
CM 1

CRN 69531-53-9

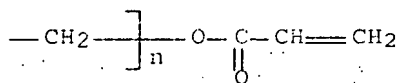
CMF (C2 H4 O)n (C2 H4 O)n C18 H14 O6 S

CCI PMS

PAGE 1-A



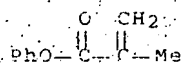
PAGE 1-B



CM 2

CRN 2177-70-0

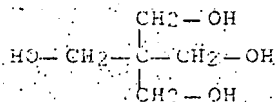
CMF C10 H10 O2



CM 3

CRN 115-77-5

CMF C5 H12 O4



RN 216439-74-6 HCAPLUS

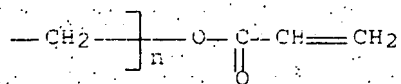
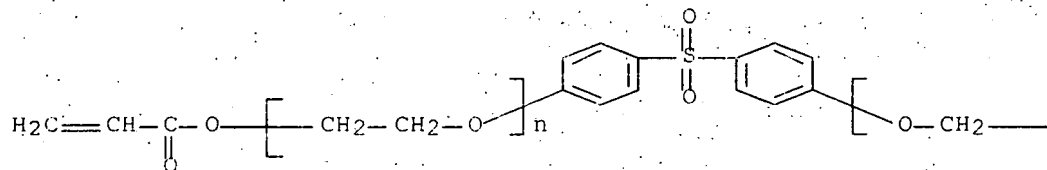
CM 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
 2,2-bis[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl
 bis(mercaptoacetate) and α,α' -(sulfonyldi-4,1-
 phenylene)bis[ω -[(1-oxo-2-propenyl)oxyl]poly(oxy-1,2-ethanediyl)]
 (CCI) (CA INDEX NAME)

CM 1

CRN 69531-53-9

CMF (C2 H4 O)n (C2 H4 O)n C18 H14 O6 S

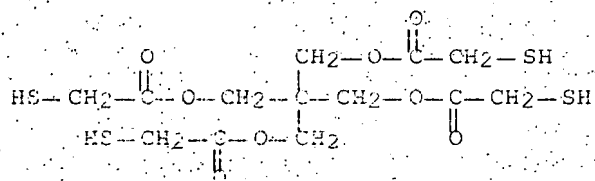
CCI PMS



CM 2

CRN 10193-99-4

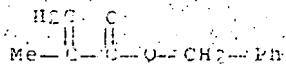
CMF C13 H20 O8 S4



CM 3

CRN 2495-37-6

CMF C11 H12 O2



RN 216439-75-7 HCAPLUS

CN Ethanethiol, 2,2'-thiobis-, polymer with 1-chloro-4-ethenylbenzene and
 α, α' -(sulfonyldi-4,1-phenylene)bis[ω -[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

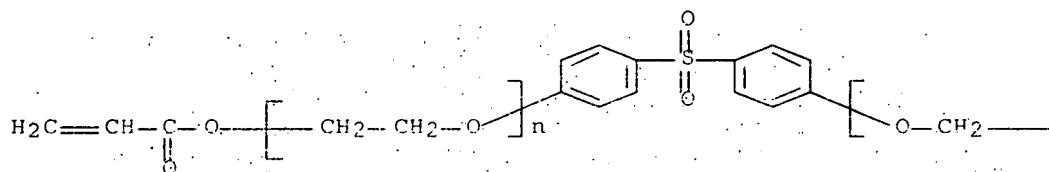
CM 1

CRN 69531-53-9

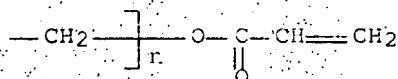
CMF (C2 H4 O)n (C2 H4 O)n C18 H14 O6 S

CCI PMS

PAGE 1-A



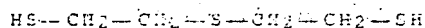
PAGE 1-B



CM 2

CRN 3570-55-6

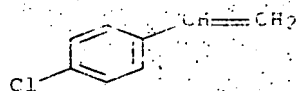
CMF C4 H10 S3



CM 3

CRN 1073-67-2

CMF C8 H7 Cl



IC ICM C08G075-04

ICS G02B001-04; G02C007-02; C08L081-02

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 37, 73

IT Eyeglass lenses

(polymerizable compns. containing (meth)acrylates and thiols for eyeglass lenses with high refractive index, impact and heat resistance, and dyeability)

IT 216439-70-2P 216439-71-3P 216439-72-4P
216439-73-5P 216439-74-6P 216439-75-7P

(polymerizable compns. containing (meth)acrylates and thiols for eyeglass lenses with high refractive index, impact and heat resistance, and dyeability)

L24 ANSWER 23 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:555876 HCAPLUS Full-text

DOCUMENT NUMBER: 129:217681

TITLE: Acrylic resin eyeglass lenses containing absorbents for near IR rays

INVENTOR(S): Machida, Katsuichi; Okihara, Takeo; Shouji, Masuhiro; Ito, Yoshinobu; Atano, Koki

PATENT ASSIGNEE(S): Kureha Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10228004	A	19980825	JP 1997-28772	19970213

PRIORITY APPLN. INFO.: JP 1997-28772 19970213

ED Entered STN: 01 Sep 1998

AB The lenses comprise 100 parts copolymers obtained from 2-60% PO(OH)nR3-n [I; R = CH2:CXCO2(C2H4O)m; X = H, Me; m = 0-5; n = 1, 2] and 40-98% comonomers and 1.0-50 parts dispersed ionic metal components containing mainly Cu ion. Thus, a monomer mixture containing I (X = Me; m = n = 1) 8.82, I (X = Me; m = 1; n = 2) 5.18, Me methacrylate 18.0, 2,2-bis(4-methacryloxyethoxyphenyl)propane 43.0, phenoxyethyl methacrylate 19.0, and 2,4-diphenyl-4-methyl-1-pentene 0.3 part was mixed with 0.1 part 2-(2'-hydroxy-5'-octylphenyl)benzotriazole and 6.0 parts CuOEt2 and polymerized in the presence of a peroxide to give a blue molding with water absorption 2.2% (25°, 24 h) and good light absorption at 700-1000 nm.

IT 212620-04-7P; Bis(2-methacryloxyethyl) phosphate-2,2-bis(4-methacryloxyethoxyphenyl)propane-2,4-diphenyl-4-methyl-1-pentene-methyl methacrylate-mono(2-methacryloxyethyl) phosphate copolymer (acrylic resin eyeglass lenses containing absorbents for near IR rays)

RN 212620-04-7 HCAPLUS

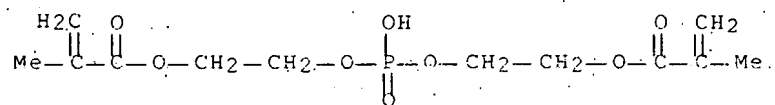
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedyl) ester, polymer with 1,1'-(1,1-dimethyl-3-methylene-1,3-propanediyl)bis[benzene], methyl 2-methyl-2-propenoate, phosphinobis(oxy-2,1-ethanedyl) bis(2-methyl-2-propenoate) and 2-(phosphonooxy)ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32435-16-4

CMF C12 H19 O3 P

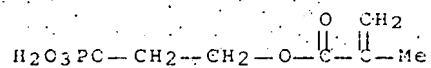
10/549,696



CM 2

CRN 24599-21-1

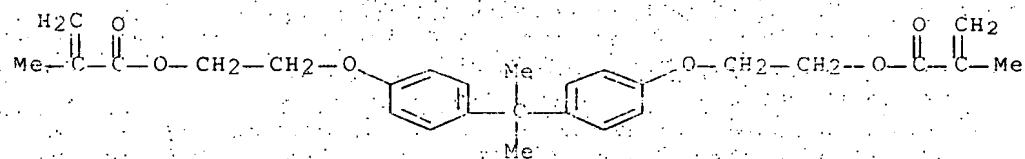
CMF C6 H11 O6 P



CM 3

CRN 24448-20-2

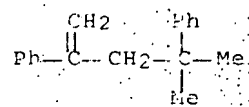
CMF C27 H32 C6



CM 4

CRN 6362-80-7

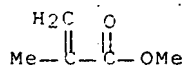
CMF C18 H20



CM 5

CRN 80-62-6

CMF C5 H8 O2



IC ICM G02C007-02
ICS C08F030-02; G02B001-04; G02C007-10; C09K003-00
CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 63
IT Eyeglass lenses
(acrylic resin eyeglass lenses containing absorbents for near IR rays)
IT 212620-04-7P, Bis(2-methacryloyloxyethyl) phosphate-2,2-bis(4-methacryloxyethoxyphenyl)propane-2,4-diphenyl-4-methyl-1-pentene-methyl methacrylate-mono(2-methacryloyloxyethyl) phosphate copolymer
(acrylic resin eyeglass lenses containing absorbents for near IR rays)

L24 ANSWER 24 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:239582 HCAPLUS Full-text

DOCUMENT NUMBER: 129:19736

TITLE: Polymerizable photochromic compositions and photochromic lenses for ocular disease patients

INVENTOR(S): Shimonishizono, Katsushi; Itonaga, Kazumasa

PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan; Tokai Kogaku K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101752	A	19980421	JP 1996-261780	19961002
JP 3681481	B2	20050610		
PRIORITY APPLN. INFO.:			JP 1996-261780	19961002

ED Entered STN: 27 Apr 1998

AB The comps. contain (A) polyfunctional (meth)acrylate monomers 100, (B) photochromic compds. 0.001-10, (C) epoxy compds. 0.1-30, and (D) dyes or pigments 0.001-1 weight part. The photochromic lenses comprise the above comps. The lenses show good antiglare and light-control properties indoors and outdoors, and are useful for eyeglasses for patients with retinal or corneal disorders, lenticomized patients, etc. A composition containing tetraethylene glycol dimethacrylate 60, triethylene glycol dimethacrylate 15, α -methylstyrene 10, α -styrene dimer 1, and glycidyl methacrylate 14 weight parts was stirred at room temperature for 2 h, mixed with spiro[bicyclo[3.3.1]nonane 9,2'-2H-benzo[h]chromene] 0.05, N-cyanomethyl-6,7-dihydro-2-(p-methoxyphenyl)-4-methylspiro[5,6-benzo[b]thiophenedicarboximido-7,2-tricyclo[3.3.1.1]decane] 0.07, 6'-fluoro-1',7'-dimethyl-6''-morpholinodispiro[cyclohexane-1,3'-(3H)indole-2'-(1'H),3'-(3H)naphtho[3,2-a][1,4]oxazine] 0.05, PS Yellow S-K 0.03, PS Red G 0.002, PS Blue RP 0.001, and tert-Bu peroxy-2-ethylhexanoate 1 weight part, and cast-molded to give a photochromic plate.

IT 207602-80-0P, Bisphenol A monoglycidyl ether methacrylate- α -methylstyrene- α -methylstyrene dimer-tetraethylene glycol dimethacrylate-triethylene glycol dimethacrylate copolymer

(polymerizable photochromic compns. containing polyfunctional acrylates, epoxy compds., and dyes and photochromic eyeglass lenses therefrom for ocular disease patients)

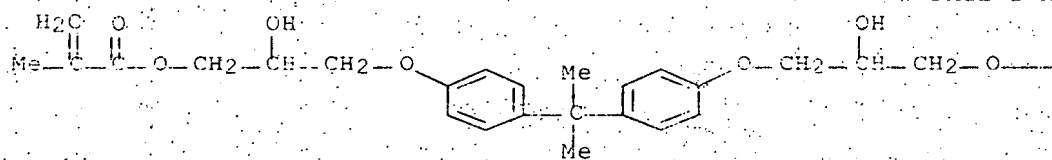
RN 207602-80-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with (1-methylethenyl)benzene, (1-methylethenyl)benzene dimer, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) and oxybis(2,1-ethanediyl)oxy-2,1-ethanediyl bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

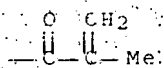
CM 1

CRN 1565-94-2

CME C29 H36 O8



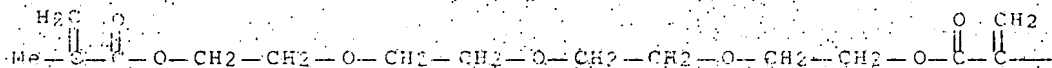
PAGE 1-B



CM 2

CRN 109-17-1

CME C16 H26 O7

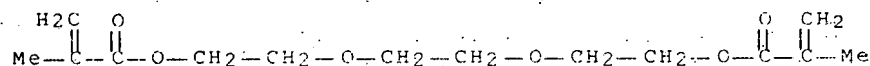


PAGE 1-B



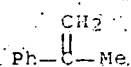
CM 3

CRN 109-16-0
CMF C14 H22 O6



CM 4

CRN 98-83-9
CMF C9 H10

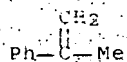


CM 5

CRN 5144-04-3
CMF (C9 H10) 2
CCI PMS

CM 6

CRN 98-83-9
CMF C9 H10



IC ICM C08F299-00
ICS C08F220-20; C08F220-32; C08F290-06; C09K009-02; G02B001-04;
G02C007-02

CC 62-7 (Pharmaceuticals)

Section cross-reference(s): 38, 74

II Eyeglass lenses

Photochromic materials

(polymerizable photochromic compns. containing polyfunctional acrylates, epoxy compds., and dyes and photochromic eyeglass lenses therefrom for ocular disease patients)

II 207602-79-7P, Glycidyl methacrylate- α -methylstyrene- α -methylstyrene dimer-tetraethylene glycol dimethacrylate-triethylene glycol dimethacrylate copolymer 207602-80-0P, Bisphenol A monoglycidyl ether methacrylate- α -methylstyrene- α -methylstyrene dimer-tetraethylene glycol dimethacrylate-triethylene glycol dimethacrylate copolymer 207602-81-1P, Glycidyl methacrylate- α -methylstyrene- α -methylstyrene

dimer-tetraethylene glycol dimethacrylate opolymer
 (polymerizable photochromic compns. containing polyfunctional
 acrylates, epoxy compds., and dyes and photochromic eyeglass lenses
 therefrom for ocular disease patients)

L24 ANSWER 25 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:465242 HCAPLUS Full-text

DOCUMENT NUMBER: 127:81901

TITLE: Transparent organic photochromic and
 non-photochromic polymeric materials with high
 refractive index

INVENTOR(S): Florent, Frederic H.; Henry, David; Lafosse,
 Xavier

PATENT ASSIGNEE(S): Corning Incorporated, USA; Florent, Frederic H.;
 Henry, David; Lafosse, Xavier

SOURCE: PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9721122	A1	19970612	WO 1996-US18668	19961121

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W: AU, BP, CA, CN, JP, KR, MX, RU, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE

FR 2741959	A1	19970606	FR 1995-14343	19951205
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FR 2741959	B1	19980213		
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AU 9710573	A	19970627	AU 1997-10573	19961121
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EP 866987	A1	19980930	EP 1996-941425	19961121
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EP 866987	B1	20021002		
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R: DE, ES, FR

CN 1203672	A	19981230	CN 1996-198673	19961121
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ES 2184359	T3	20030416	ES 1996-941425	19961121
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US 6221284	B1	20010424	US 1999-51025	19991112
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PRIORITY APPLN. INFO.: FR 1995-14343 A 19951205

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US 1996-11423P P 19960208

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US 1996-23330P P 19960731

<--

WO 1996-US18668 W 19961121

<--

ED Entered STN: 25 Jul 1997

AB The materials, useful for ophthalmic lenses and automobile or building
 glazings, have n >1.55, and are free of optical distortions. The materials
 optionally contain a photochromic coloring agent, a dye, a chain transfer
 agent, a polymerization initiator or catalyst and a hindered amine light
 stabilizer. In particular, a such material comprises a dimethacrylate of
 bisphenol A ethoxylate or propoxylate, (α-methyl)styrene, di(α-
 methyl)vinylbenzene, (meth)acrylate esters of C4-16 alkyl, alkylaryl or

(CH₂CH₂O)_nR type (n = 1-10; R = Me Et), and optionally photochromic colorant chosen from spirooxazines, spiropyrans and chromenes.

IT 191721-18-3, Diacryl 121-divinylbenzene-2-ethylhexyl methacrylate-styrene copolymer 191721-19-4, Butyl methacrylate-Diacryl 121-divinylbenzene-styrene copolymer 191721-22-9, Diacryl 121-divinylbenzene-ethyl triglycol methacrylate-styrene copolymer

(transparent organic photochromic and non-photochromic polymeric materials with high refractive index)

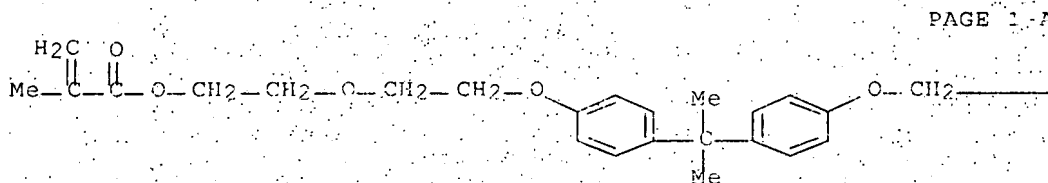
RN 191721-18-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl) ester, polymer with diethenylbenzene, ethenylbenzene and 2-ethylhexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

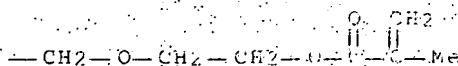
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CRN 56744-60-6

CMF C31 H40 O8



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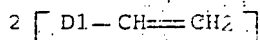


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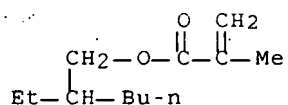
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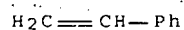


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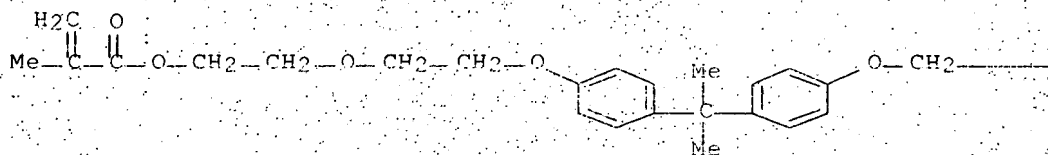
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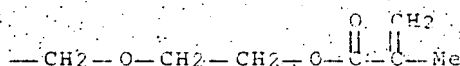
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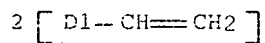
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PAGE 1-2

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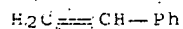
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CCI IDS



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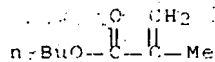
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CM 4

CRN 97-88-1

CMF C8 H14 O2



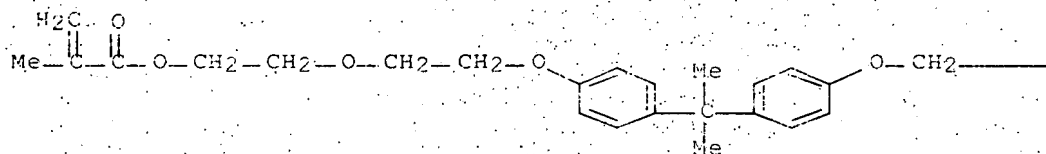
RN 191721-22-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with diethenylbenzene, ethenylbenzene and 2-[2-(2-ethoxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

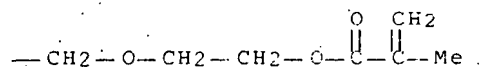
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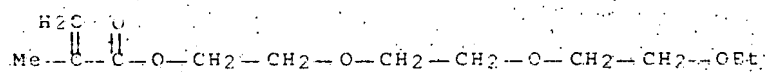
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CM 2

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CMF C12 H22 O5

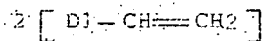


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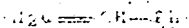
CCI IDS



CM 4

CRN 100-42-5

CMF C8 H8



IC ICM G02E005-23

ICS G09F012-24

CC 25-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 63

IT Eyeglasses

Lenses

Refractive index

Transparent materials

(transparent organic photochromic and non-photochromic polymeric materials with high refractive index)

IT 191721-18-3, Diacryl 121-divinylbenzene-2-ethylhexyl methacrylate-styrene copolymer 191721-19-4, Butyl methacrylate-Diacryl 121-divinylbenzene-styrene copolymer 191721-22-9, Diacryl 121-divinylbenzene-ethyl triglycol methacrylate-styrene copolymer
(transparent organic photochromic and non-photochromic polymeric materials with high refractive index)

L24 ANSWER 26 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:286223 HCAPLUS Full-text

DOCUMENT NUMBER: 126:268541

TITLE: Contact lenses with hydrophilic crosslinkers

INVENTOR(S): Nunéz, Ivan; Molock, Frank F.; Elliott, Laura

PATENT ASSIGNEE(S): Johnson & Johnson Vision Products, Inc., USA

SOURCE: Can. Pat. Appl., 65 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2178466	A1	19961208	CA 1996-2178466	19960606
US 5563183	A	19961008	US 1995-484134	19950607
US 5565539	A	19961015	US 1995-484133	19950607
US 5654350	A	19970805	US 1995-484132	19950607
BP 9602701	A	19980422	BR 1996-2701	19960607
PRIORITY APPLN. INFO:			US 1995-484132	A 19950607
			US 1995-484133	A 19950607
			US 1995-484134	A 19950607

ED Entered STN: 05 May 1997

AB Hydrophilic contact lenses made using a crosslinking agent:

$\text{AX}(\text{OC}(\text{OR})\text{C}(\text{O})\text{I}(\text{OX})\text{N})\text{A}$ where R contains one or more cyclic or bicyclic moieties, X is linear or branched alkyl or alkenyl, optionally substituted, and A is acrylate, methacrylate, vinylbenzoyloxy or vinylphenoxy, exhibit superior hydrophilicity, oxygen transmissivity, and phys. properties. E.g., succinated diglycidyl bisphenol A dimethacrylate was prepared

IT 133817-64-3P 133817-65-4P

(contact lenses with hydrophilic crosslinkers)

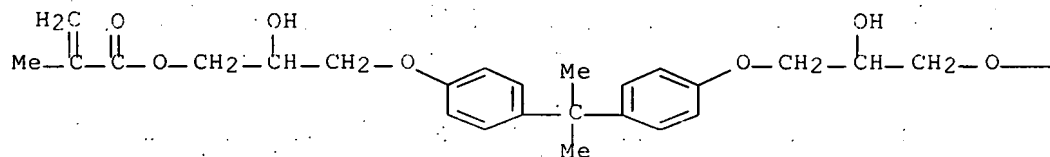
RN 133817-64-3 HCAPLUS

CN 2-Propanoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with dihydro-2,5-furandione (9CI) (CA INDEX NAME)

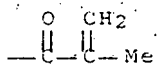
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CMF C29 H36 O8

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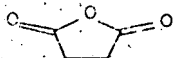


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CRN 108-30-5
CMF C4 H4 O3

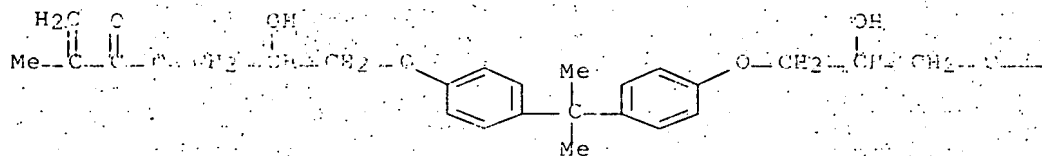


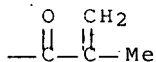
RN 188817-65-4 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy[2-hydroxy-3,1-propanediyl]] ester, polymer with 3,3,4,4,5,5-hexafluorodihydro-2H-pyran-2,6(3H)-dione (9CI) (CA INDEX NAME)

CM 1

CRN 1565-94-2
CMF C29 H36 O8

PAGE 1-A

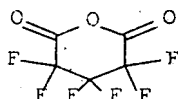




CM 2

CRN 376-68-1

CMF C5 F6 O3



IC ICM C08F020-26
ICS G02B001-04
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 35
IT Contact lenses
Crosslinking agents
(contact lenses with hydrophilic crosslinkers)
IT 25721-76-OP, Polyethylene glycol dimethacrylate 25852-47-5P,
Polyethylene glycol dimethacrylate 183668-38-4P 188817-64-3P
188817-65-4P
(contact lenses with hydrophilic crosslinkers)

L24 ANSWER 27 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:664688 HCAPLUS Full-text
DOCUMENT NUMBER: 125:339120
TITLE: Method for making photochromic ophthalmic lenses
INVENTOR(S): Cano, Jean-Paul; Weber, Steven; Tardieu, Pascale,
Lelard, Nathalie
PATENT ASSIGNEE(S): Escilor International - Compagnie Generale
D'Optique, Fr.
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9627488	A1	19960912	WO 1996-FR323	19960301

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK,
EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR,
LC, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB,
GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,

GN, ML
 FR 2731226 A1 19960906 FR 1995-2520 19950303
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 FR 2731226 B1 19970425
 AU 9649473 A 19960923 AU 1996-49473 19960301
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 AU 695576 B2 19980813
 BR 9607467 A 19971223 BR 1996-7467 19960301
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 EP 813471 A1 19971229 EP 1996-905894 19960301
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 EP 813471 B1 20010411
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 JP 11501959 T 19990216 JP 1996-526651 19960301
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 JP 3507502 B2 20040315
 PRIORITY APPLN. INFO.: FR 1995-2520 A 19950303
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 WO 1996-FR323 W 19960301
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ED Entered STN: 11 Nov 1996.

AB A method wherein (a) a polymerizable composition consisting of transparent organic glass is fed into a mold; (b) the composition is polymerized under such conditions that the resulting transparent organic glass substrate has at least one thin surface layer polymerized with a degree of completion and/or crosslinking that is substantially lower than in the rest of the substrate; and optionally (c) subjecting the substrate to thermal stress relief annealing. The method is useful for producing finished or semi-finished ophthalmic articles, particularly photochromic ophthalmic articles. Tetraethoxy-bisphenol A-dimethacrylate 98, 3-methyl-2-butene-1-ol 2%, and Darcur 4265 0.15 part were photopolymd. and coated with a composition containing cellulose acetobutyrate 18, spirooxazine 2, and methylacetone 80% to obtain a photochromic lens with high optical d.

IT 182964-71-2P

(method for making photochromic ophthalmic lenses)

RN 182964-71-2 HCAPLUS

CN 2-Buten-1-ol, 3-methyl-, polymer with α, α' -[1-methylethylidene]di-4,1-phenylene]bis[4-[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

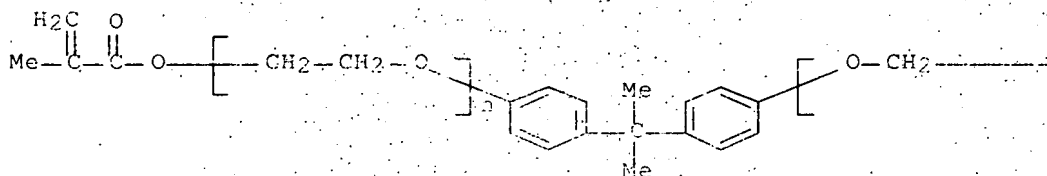
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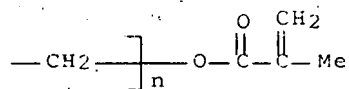
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CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A

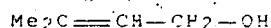




CM 2

CRN 556-82-1

CMF C5 H10 O



IC ICM B29C039-42
 ICS B29C035-02; B29C039-00
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s) 38
 IT Lenses
 (contact, method for making photochromic ophthalmic lenses)
 IT Lenses
 (eyeglass, photochromic, method for making photochromic ophthalmic lenses)
 IT 182964-71-2P
 (method for making photochromic ophthalmic lenses)

L24 ANSWER 28 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:643822 HCAPLUS Full-text

DOCUMENT NUMBER: 125:295001

TITLE: Photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A

INVENTOR(S): Henry, David; Vial, Jacques Jean; Chan, You Ping; Meyrueix, Rémi

PATENT ASSIGNEE(S): Corning Incorporated, USA

SOURCE: Fr. Demande, 17 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2728576	A1	19960628	FR 1994-15495	19941222
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CA 2205349	A1	19960627	CA 1995-2205349	19951109
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EP 799431	A1	19971008	EP 1995-942849	19951109
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EP 799431	B1	19990623		

R: BE, DE, ES, GB, IT, NL

JP 10510872	T	19981020	JP 1995-519792	19951109
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ES 2135111	T3	19991016	ES 1995-942849	19951109
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IN 194332	A1	20041009	IN 1995-DE2114	19951117
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US 5763511	A	19980609	US 1997-817560	19970421
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PRIORITY APPLN. INFO.:

FR 1994-15495	A	19941222
		<--
WO 1995-US14585	W	19951109
		<--

ED Entered STN: 01 Nov 1996

AB Photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A and a coloring agent chosen from spiroxazine, spiropyrans, and chromenes are disclosed. Polycaprolactone diol 0.08, hydroxyethyl methacrylate 0.16 mol, and di-Bu stannous laurate 0.02% were heated under N at 50° for half an h followed by addition of 0.16 mol of isophorone diisocyanate to obtain a polyurethane-functionalized dimethacrylate. A photochromic lens was prepared comprising Diacryl 101 90, above polymer 10, a photochromic color 0.2, and AIBN 0.5 parts.

IT 182552-45-0P 182552-46-1P

(photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A)

RN 182552-45-0 HCAPLUS

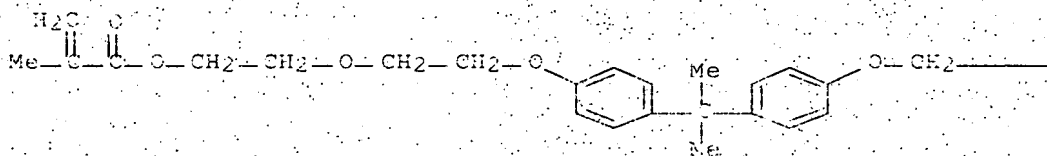
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 1,4-bis(1-isocyanato-1-methylethyl)benzene and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

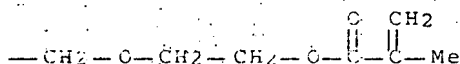
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CME C31 H40 O8

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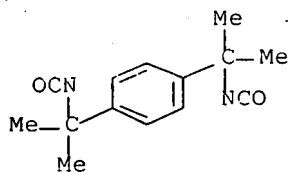
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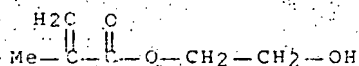
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CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 182552-46-1 HCAPLUS

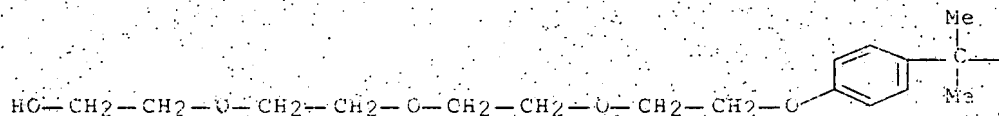
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)bis[ethanol] (9CI) (CA INDEX NAME)

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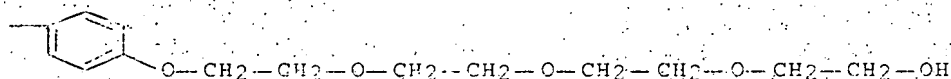
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CMF C31 H48 O10

PAGE 1-A



PAGE 1-B

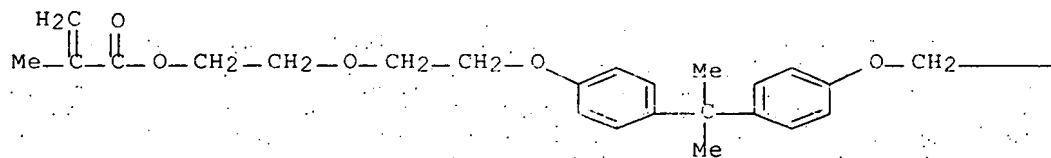


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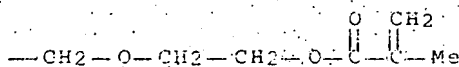
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CMF C31 H40 O8

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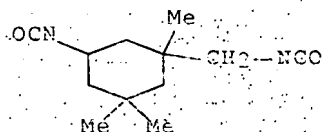
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CM 3

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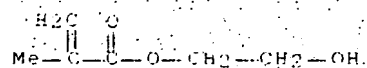
CMF C12 H18 N2 O2



CM 4

CRN 868-77-9

CMF C8 H10 O3



IC ICM C08F283-00
 ICS C08L075-16; C08J003-20; C09K009-00; G02B001-04
 ICI C08F283-00, C08F220-20
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s): 38

IT Lenses
 (contact, photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A)

IT Photochromic substances
 (dyes, photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A)

IT Lenses
 (eyeglass, photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A)

IT 24448-20-2DP, Diacryl 101, polymers with polyurethanes
 182552-45-0P 182552-46-1P
 (photochromic ophthalmic lenses with high refractive indexes comprising ethoxylated bisphenol A)

L24 ANSWER 29 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:637551 HCAPLUS Full-text

DOCUMENT NUMBER: 126:11551

TITLE: Contact lenses with hydrophilic crosslinkers

INVENTOR(S): Nunez, Ivan; Molock, Frank F.; Elliott, Laura

PATENT ASSIGNEE(S): Johnson & Johnson Vision Products, Inc., USA

SOURCE: U.S., 14 pp.

CODEN: USXYAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5563183	A	19961008	US 1995-484134	19950607
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CA 2178466	A1	19961208	CA 1996-2178466	19960606
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EP 747734	A2	19961211	EP 1996-304225	19960606
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EP 747734	B1	20010822		
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PRIORITY APPLN. INFO:

US 1995-484132	A	19950607
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US 1995-484133	A	19950607
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US 1995-484134	A	19950607
		<--

ED. Entered STN: 20 Oct 1996

AB Hydrophilic contact lenses made using a crosslinking agent of the formula, $AY[OC(O)RRC(O)XOY]nA$ wherein R contains one or more cyclic or bicyclic moiety; Y is linear or branched alkyl or alkenyl; A is acrylate, methacrylate, vinylbenzoyloxy or vinylphenoxy; n is 1 to 6; and x is 0 or 1, exhibit

superior hydrophilicity, oxygen transmissivity, and phys. properties. A reactive monomer mixture consisting of Darocur 1173 0.4, succinated diglycidyl bisphenol dimethacrylate crosslinking agent 8.26, hydroxyethyl methacrylate 76.3, and PEG 4500 dimethacrylate crosslinker 15.0 % was mixed with enough Glucam E-20 to make up 48 % reactive monomer/52 % diluent mixture. The mixture was transferred to contact lens molds and the filled molds were exposed to UV light. The molds were then separated and placed in physiol. saline for 3 hs to remove the inert diluent and any unreacted monomers. The lenses had modulus 96 psi, elongation rate 110 %, tensile strength 62 psi, the equilibrium water content 49.1 %, and oxygen permeability 17 cm²/s·mL O₂/mL·mmHg.

IT 180003-64-9P 183995-13-3P 183995-16-6P
183995-17-7P 183995-20-2P

(manufacture of soft contact lenses with poly(meth)acrylates containing hydrophilic crosslinkers)

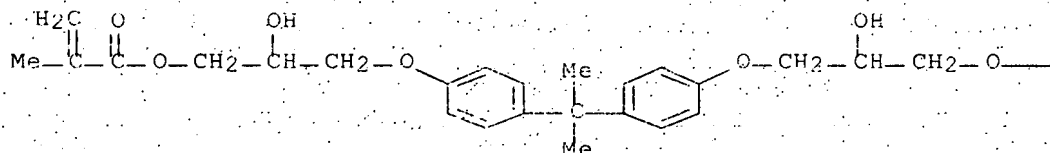
RN 180003-64-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

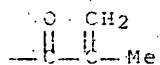
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CRN 1565-94-2

CMF C29 H36 O8



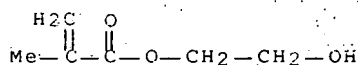
PAGE 1-B



CM 2

CPN 868-77-9

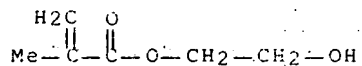
CMF C6 H10 O3



CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 183995-16-6 HCAPLUS

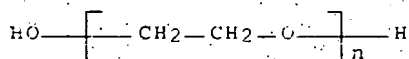
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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CRN 25322-68-3

CMF (C2 H4 O)_n H2 O

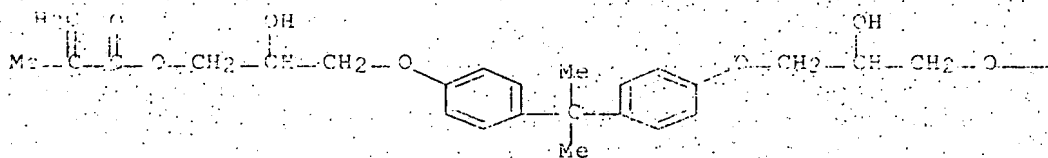
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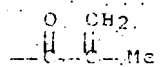
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CRN 1565-94-2

CMF C29 H36 O8



PAGE 1-A

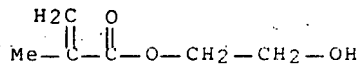


PAGE 1-B

CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 183995-17-7 HCAPLUS

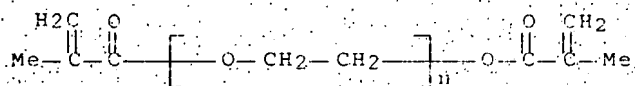
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with 3,3,4,4,5,5-hexafluorodihydro-2H-pyran-2,6(3H)-dione, 2-hydroxyethyl 2-methyl-2-propenoate and α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME).

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CRN 25852-47-5

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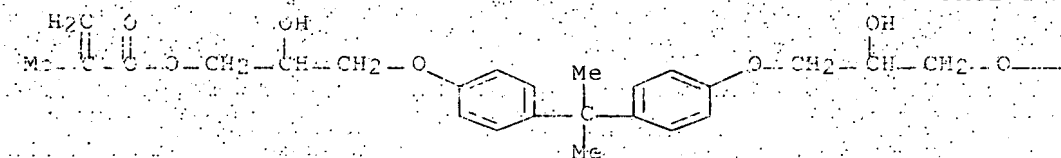
CCI FMS



CM 2

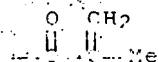
CRN 1565-94-2

CMF C32 H36 O2



PAGE 1-A

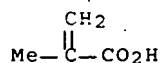
PAGE 1-B



CM 3

CRN 79-41-4

CMF C4 H6 O2



RN 183995-13-3 HCAPLUS

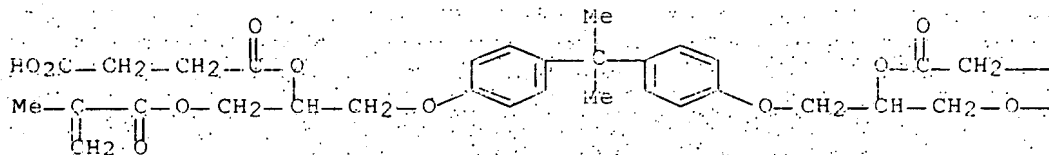
CN Butanedioic acid, (1-methylethylidene)bis[4,1-phenyleneoxy[1-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-2,1-ethanediyl]] ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and α -(2-methyl-1-oxo-2-propenyl)- ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

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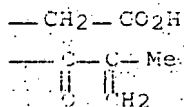
CRN 100662-51-9

CMF C37 H44 O14

PAGE 1-A



PAGE 1-B

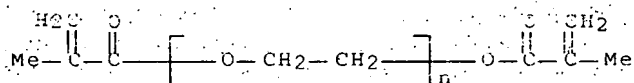


CM 2

CRN 25852-47-5

CMF (C2 H4 O)n C8 H10 O3

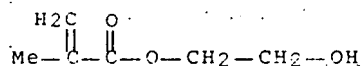
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CM 3

CRN 868-77-9

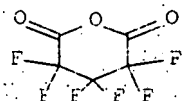
CMF C6 H10 O3



CM 4

CRN 376-68-1

CMF C5 F6 O3



RN 183995-20-2 HCAPLUS

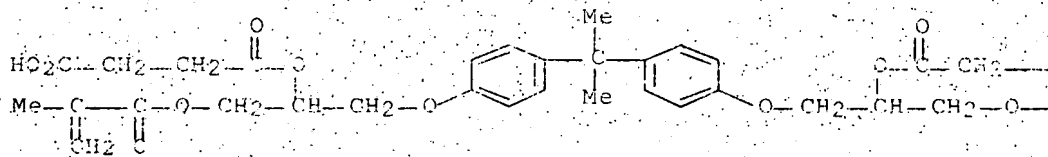
CN Butanedioic acid, (1-methylethylidene)bis[4,1-phenyleneoxy[1-[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-2,1-ethanediyl]] ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and 2-methyl-2-propenoic acid (9CI) (CA INDEX NAME)

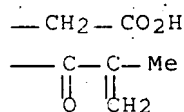
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CRN 100062-51-9

CMF C37 H44 O14

PAGE 1-A

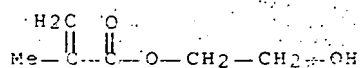




CM 2

CRN 868-77-9

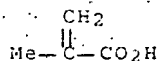
CMF C6 H10 O3



CM 3

CRN 79-41-4

CMF C4 H6 O2



IC ICM C08F236-14

ICS G02C007-04

INCL 523106000

CC 63-7. (Pharmaceuticals)

Section cross-reference(s): 38

IT Contact lenses

(soft) manufacture of soft contact lenses with poly(meth)acrylates containing hydrophilic crosslinkers)

IT 180003-64-9P 183995-17-3P 183995-16-8P

183995-17-7P 183995-20-2P 183995-22-4P

183995-26-8P

(manufacture of soft contact lenses with poly(meth)acrylates containing hydrophilic crosslinkers)

L24 ANSWER 30 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:524406 HCAPLUS Full-text

DOCUMENT NUMBER: 125:230873

TITLE: Low yellow index polymer compositions for preparation of lenses

INVENTOR(S): Keita, Gabriel; Renaudineau, Joel

PATENT ASSIGNEE(S): Essilor International Compagnie Generale D'optique, Fr.

SOURCE: U.S. 7 pp., Cont.-in-part of U.S. 5,442,022.

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

CODEN: USXXAM

Patent

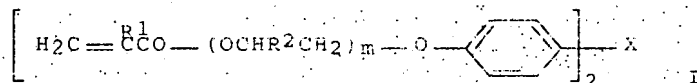
English

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5545828	A	19960813	US 1995-374378	19950118
FR 2699541	A1	19940624	FR 1992-15533	19921222
FR 2699541	B1	19950428		
US 5442022	A	19950815	US 1993-172137	19931221
US 5702825	A	19971230	US 1996-695790	19960812
PRIORITY APPLN. INFO.:			FR 1992-15533	A 19921222
			US 1993-172137	A2 19931221
			US 1995-374378	A2 19950108

ED Entered STN: 31 Aug 1996

GI



AB A new polymer compns. for use in the manufacture of ophthalmic lenses which result from the copolymer of $\geq 50\%$ of (I, $\text{R}^1, \text{R}^2 = \text{H}, \text{C1-C6 alkyl}, \text{X} = \text{O}, \text{S}, \text{SO}_2, \text{CO}, \text{CH}_2, \text{CH}=\text{CH}, \text{C}(\text{CH}_3)_2, m, n = 0-10$) and 0.5-15% by weight of a monomer having an ethylenic unsatn. which does not contribute to an aromatic system and having a free hydroxy group in position α of the unsatn. is disclosed, as well as their use in ophthalmol. and apparatus using these lenses, such as eyepieces and film/video camera optics. A mixture of 92 parts tetraethoxy bis-phenol A dimethacrylate and 8 parts Et methacrylate was mixed with 0.5% cyclohexyl peroxydicarbonate followed by addition of allyl alc. and stirring to polymerize. The lenses thus obtained had a yellow index of 1.62 as compared with 2.96 for the controls.

IT 107001-67-2P 181472-71-3P 181472-72-0P
 181472-73-1P 181472-74-2P 181472-75-3P
 181472-76-4P 181472-77-5P 181472-78-6P
 181472-79-7P 181472-80-8P 181472-81-1P
 181472-82-2P 181472-83-3P 181472-84-4P
 181472-85-5P 181472-87-7P 181472-89-9P
 181472-90-2P 181472-91-3P

(low yellow index polymer compns. for preparation of lenses)

RN 107001-67-2 HCAPLUS

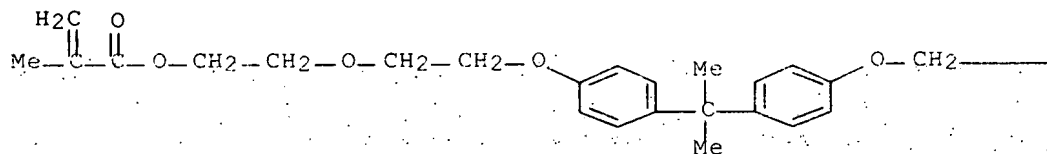
CN 2-Propenoic acid, 2-methyl-, 1,1'-[(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl)] ester, polymer with ethenylbenzene. (CA INDEX NAME)

CM 1

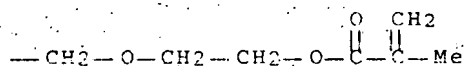
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CMF C31 H40 O8

PAGE 1-A



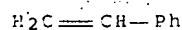
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CM 2

CRN 100-42-5

CMF C8 H8



RN 181472-71-9 HCAPLUS

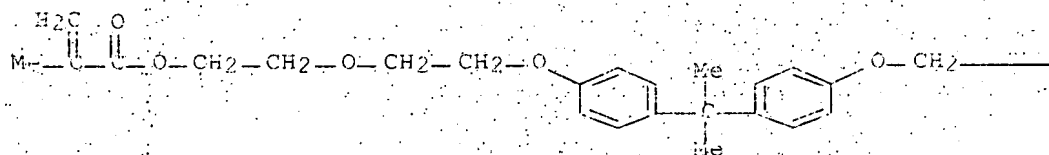
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with ethyl 2-methyl-2-propenoate and 2-propen-1-ol (9CI) (CA INDEX NAME)

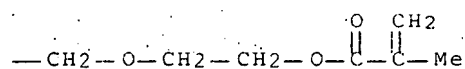
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CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A

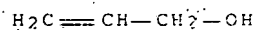




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CRN 107-18-6

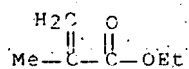
CMF C3 H6 O



CM 3

CRN 97-63-2

CMF C6 H10 O2



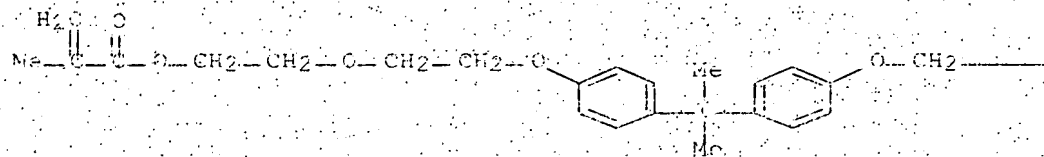
PM 181472-72-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with ethyl 2-methyl 2-propenoate and 2-methyl-2-propen-1-ol (9CI) (CA INDEX NAME)

CM

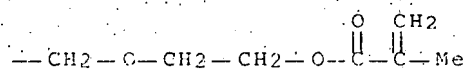
CRN 56744-60-6

CMF C33 H40 O8



PAGE 1-A

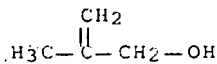
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CM 2

CRN 513-42-8

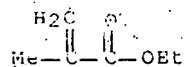
CMF C4 H8 O



CM 3

CRM . 97-63-2

CMF .. C6 H10 O2



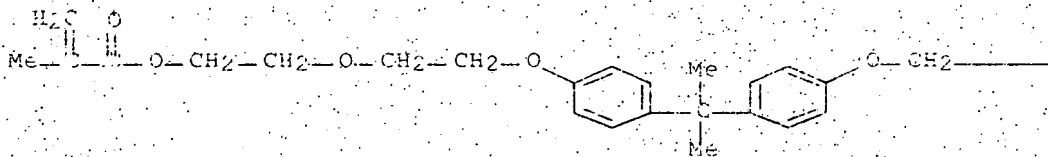
RN 181472-73-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)oxy-2,1-ethanediyl ester, polymer with 2-buten-1-ol and ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

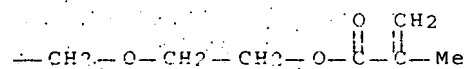
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CRN 56744-60-6

CMF C21 H40 Q8

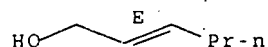


PAGE 1 - A



PAGE 1 - B

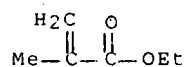
Double bond geometry as shown.



CM 3

CRN 97-63-2

CMF C6 H10 O2



RN 181472-75-3 HCAPLUS

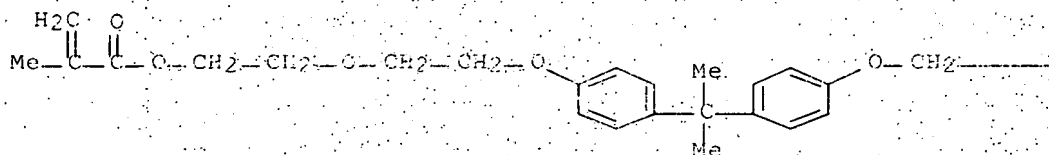
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-
2,1-ethanediyl) ester, polymer with
(Z)-2-butene-1,4-diol and ethyl 2-methyl-2-propenoate (9C1) (CA INDEX
NAME)

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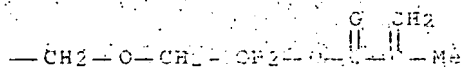
CRN 56744-60-6

CMF C31 H40 Q8

PAGE 1-A



PAGE 1 - B



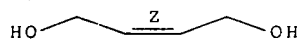
CM 2

CRN 6117-80-2

CMF. C4. H9. 02

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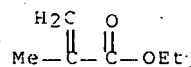
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CM 3

CRN 97-63-2

CMF. C6 H10 O2



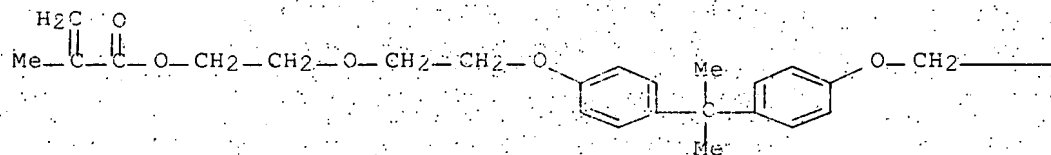
RN 181472-76-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-1-(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl) ester, polymer with ethyl 2-methyl-2-propenoate and 3-methyl-2-buten-1-ol (9CI) (CA INDEX NAME)

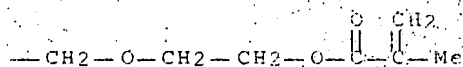
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CRN 56744-60-6

CMF C31 H40 CE



PAGE 1-A

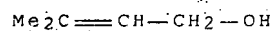


PAGE 1 - B

CM 2

CRN 556-82-1

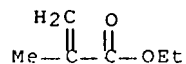
CMF C5 H10 O



CM 3

CRN 97-63-2

CMF C6 H10 O2



RN 181472-77-5 HCAPLUS

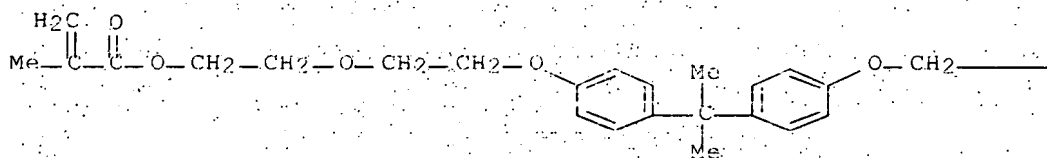
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 2-cyclohexen-1-ol and ethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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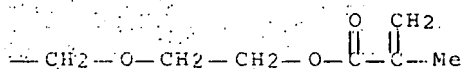
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CMF C31 H40 O8

PAGE 1-A



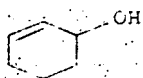
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CM 2

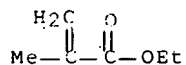
CRN 822-67-3

CMF C6 H10 O



CM 3

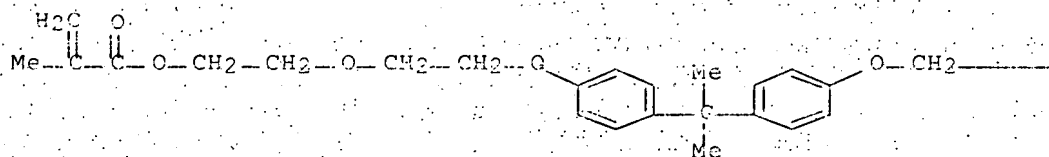
CRN 97-63-2
CMF C6 H10 O2



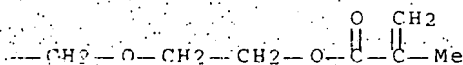
RN 181472-78-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, polymer with
(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)bis(2-methyl-2-propenoate) and 2-propen-1-ol (9CI) (CA
INDEX NAME)

CM 1

CRN 56744-60-6
CMF C31 H40 O8



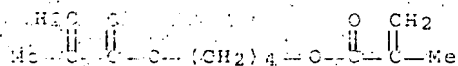
PAGE 1-A



PAGE 1-B

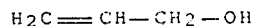
CM 2

CRN 2082-81-7
CMF C12 H18 O4



CM 3

CRN 107-18-6
CMF C3 H6 O



RN 181472-79-7 HCAPLUS

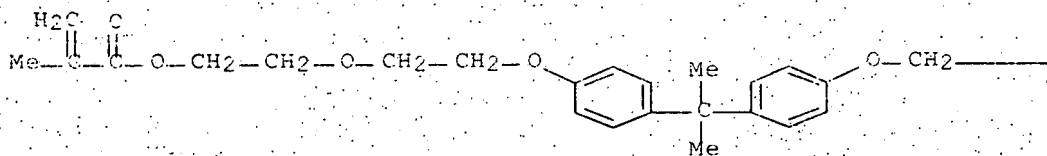
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 2-methyl-2-propen-1-ol (9CI) (CA INDEX NAME)

CM 1

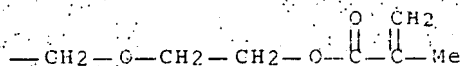
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



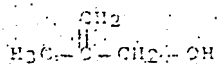
PAGE 1-B



CM 2

CRN 513-42-8

CMF C4 H8 O



RN 181472-80-0 HCAPLUS

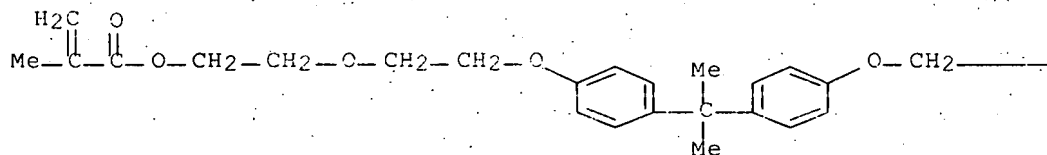
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 2-buten-1-ol and 2-cyclohexen-1-ol (9CI) (CA INDEX NAME)

CM 1

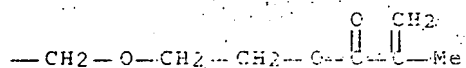
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



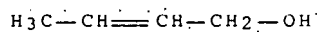
PAGE 1-B



CM 2

CRN 6117-91-5

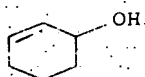
CMF C4 H8 O



CM 3

CRN 822-67-3

CMF C6 H10 O



RN 181472-81-1 HQARBUS

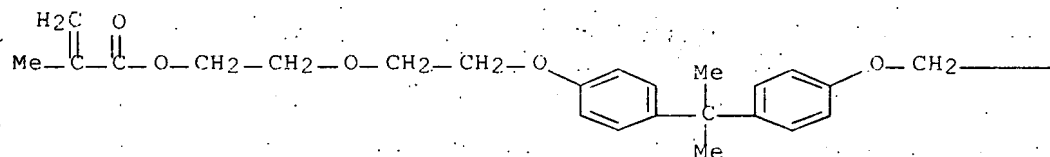
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,4'-phenyleneoxy-2,1-ethanediyloxy-2,1-ethanediyl) ester, polymer with
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (SCI)
(CA INDEX NAME)

CM 1

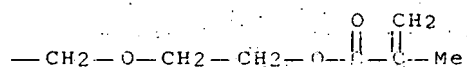
CRN 55744-60-5

CMF C33 H46 O8

PAGE 1-A



PAGE 1-B

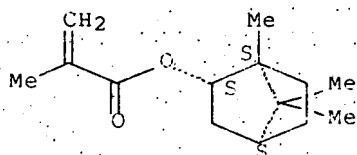


CM 2

CRN 7534-94-3

CMF C14 H22 O2

Relative stereochemistry.



RN 181472-82-2 HCAPLUS

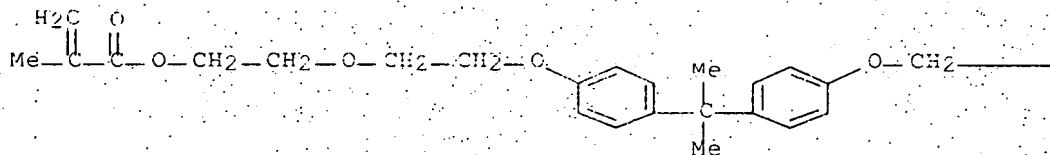
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with phenylmethyl 2-methyl-2-propenoate (PCI) (CA INDEX NAME)

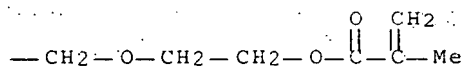
CM 1

CRN 56744-50-6

CMF C31 H40 O8

PAGE 1-A

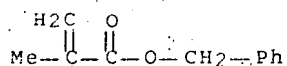




CM 2

CRN 2495-37-6

CME C11 H12 O2



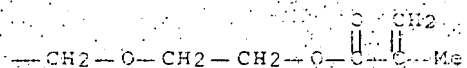
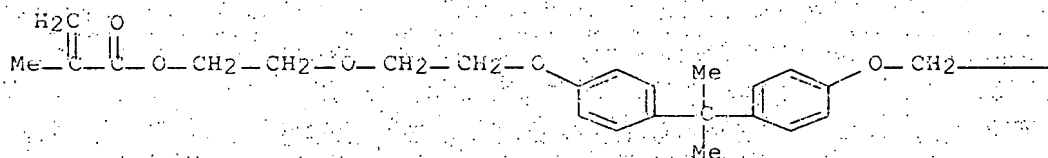
RN 181472-83-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ((1-methylethylidene)bis(4,1-phenyleneoxy-
2,1-ethanediyl) ester, polymer with 3-buten-2-ol
(9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

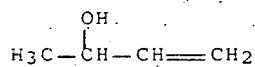
CMF C31 H40 O8



CM 2

CRN 598-32-3

CME C4 H8 O



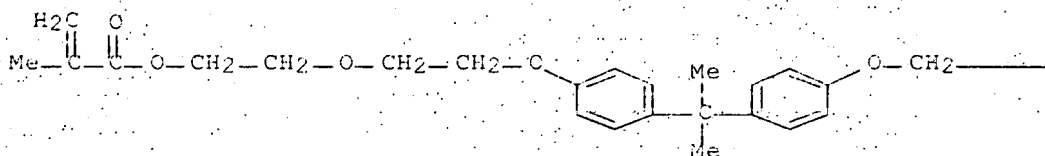
RN 181472-84-4 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with
 (E)-2-methyl-3-phenyl-2-propen-1-ol (9CI) (CA INDEX NAME)

CM 1

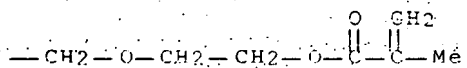
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



PAGE 1-B

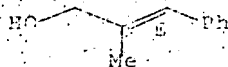


CM 2

CRN 55131-20-9

CMF C10 H12 O

Double bond geometry as shown.

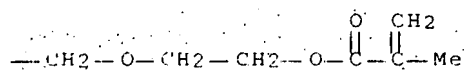
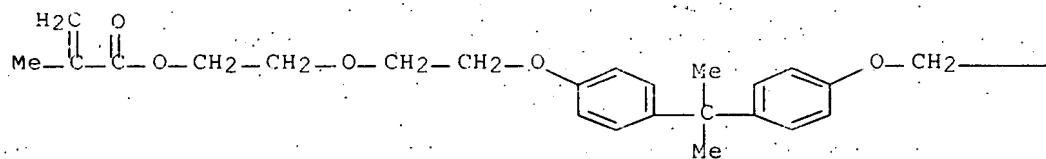


RN 181472-85-5 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with
 2-methyl-5-(1-methylethenyl)-2-cyclohexen-1-ol (9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

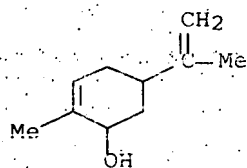
CMF C31 H40 O8



CM 2

CRN 99-48-9

CMF C10 H16 O



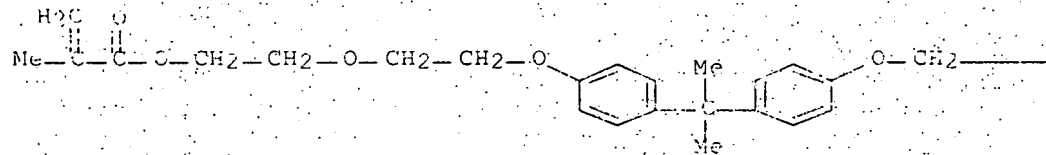
RN 191472-87-7 HCAPLUS

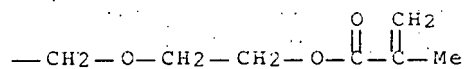
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedivloxy-2,1-ethanediyl) ester, polymer with 6,6 dimethylbicyclo[3.1.1]hept-2-ene-2-methano] (9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

CMF C31 H40 O8

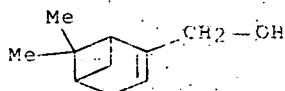




CM 2

CRN 515-00-4

CMF C10 H16 O



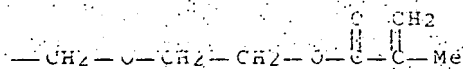
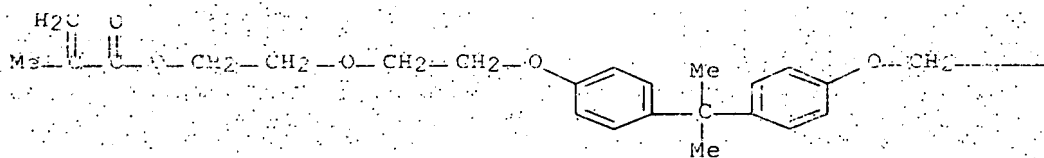
RN 181472-89-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with [1R-(1 α ,2 α ,4 α ,5 α)]-4,6,6-trimethylbicyclo[3.1.1]heptan-2-ol (9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

CMF C31 H40 O8

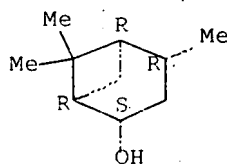


CM 2

CRN 515-88-8

CMF C10 H18 O

Absolute stereochemistry.



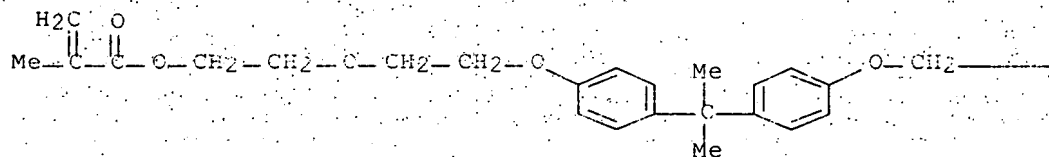
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 CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyoxy-2,1-ethanediyl) ester, polymer with (E)-3-phenyl-2-propen-1-ol (9CI) (CA INDEX NAME)

CM 1

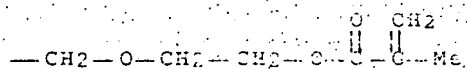
CRN 56744-60-5

CMF C31 H40 O8

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PAGE 1-B



CM 2

CRN 4407-36-7

CMF C9 H10 O

Double bond geometry as shown.

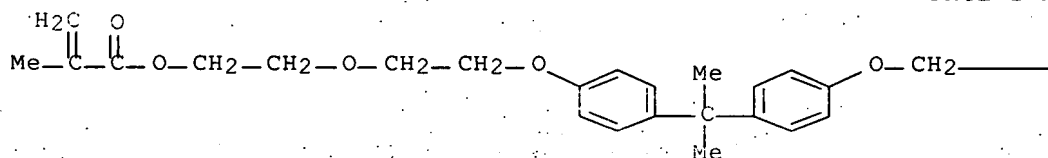


RN 181472-91-3 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyoxy-2,1-ethanediyl) ester, polymer with 3-methyl-2-buten-1-ol (9CI) (CA INDEX NAME)

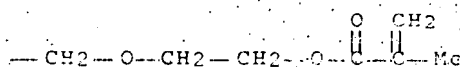
CM 1

CRN 56744-60-6
CMF C31 H40 O8

PAGE 1-A

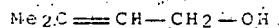


PAGE 1-B



CM 2

CRN 556-82-1
CMF C5 H10 O



IC ICM C08F232-04
ICS C08F220-30
INCL 526072000
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 35, 38
IT Lenses
(camera, low yellow index polymer comps. for preparation of lenses)
IT Lenses
(eyeglass, low yellow index polymer comps. for preparation of lenses)
IT 107901-67-2P 181472-71-9P 181472-72-0P
181472-73-1P 181472-74-2P 181472-75-3P
181472-76-4P 181472-77-5P 181472-78-6P
181472-79-7P 181472-80-0P 181472-81-1P
181472-82-2P 181472-83-3P 181472-84-4P
181472-85-5P 181472-87-7P 181472-89-9P
181472-90-2P 181472-91-3P
(low yellow index polymer comps. for preparation of lenses)

L24 ANSWER 31 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:162977 HCAPLUS Full-text
DOCUMENT NUMBER: 124:212133
TITLE: Acrylic polymerizable composition for
manufacturing organic glasses for ophthalmic
lenses

INVENTOR(S): Imura, Satoshi; Nagoh, Hironobu; Kuramoto, Kazuhiko
 PATENT ASSIGNEE(S): Tokuyama Corp., Japan
 SOURCE: Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 691550	A2	19960110	EP 1995-304684	19950704
EP 691550	A3	19961023	<--	
R: DE, ES, FR, IT				
JP 08020615	A	19960123	JP 1994-157007	19940708
JP 3085570	B2	20000911	<--	
AU 9524801	A	19960118	AU 1995-24801	19950704
AU 692257	B2	19980604	<--	
US 5556931	A	19960917	US 1995-499070	19950706
PRIORITY APPLN. INFO.:			JP 1994-157007	A 19940708
			<--	

ED Entered STN: 21 Mar 1996

AB A polymerizable composition comprising at least two di(meth)acrylate of polyethylene glycol adduct of 2,2-bis(4-hydroxyphenyl)propane (1) and organic glass formed of the polymer is claimed. The polymerizable composition being is as a transparent resin, particularly as a raw material for an ophthalmic lens which is free of optical strain, is with sufficient hardness and is excellent in impact resistance and light resistance. Thus, 0.1 part 1-hydroxycyclohexyl Ph ketone was added to 100 parts of a polymerizable composition containing T 90 and glycidyl methacrylate 10 parts and the mixture was cast into mold and exposed to UV light. After polymer, the polymer was taken out and heat-treated at 130° for 1 h to relax an internal stress. The polymer had refractive index of 1.549, hardness of 92, and impact resistance of 160 g.

IT 87028-19-1P 174460-82-3P 174460-83-4P
 174460-84-5P 174460-85-6P 174460-86-7P

(acrylic polymerizable composition for manufacturing organic glasses for ophthalmic lenses)

RN 87028-19-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-2-hydroxyethyl ester, polymer with $\alpha, \alpha' - [(1\text{-methylethylidene})\text{di-}4,1\text{-phenylene}] \text{bis}[\omega - [(2\text{-methyl-1-oxo-2-propen-1-yl})\text{oxy}]\text{poly}(\text{oxy-1,2-ethanediyl})]$ (CA INDEX NAME)

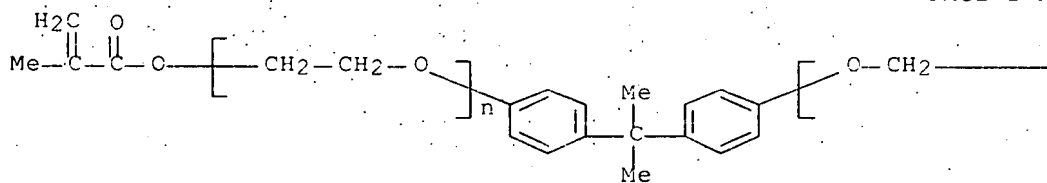
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CRN 41637-38-1

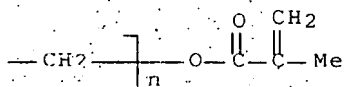
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



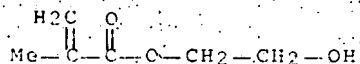
PAGE 1-B



CM 2

CRN 868-77-9

CMF C6 H10 O3



RN 174460-82-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
 α, α' -[[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)]] (9CI) (CA INDEX
 NAME)

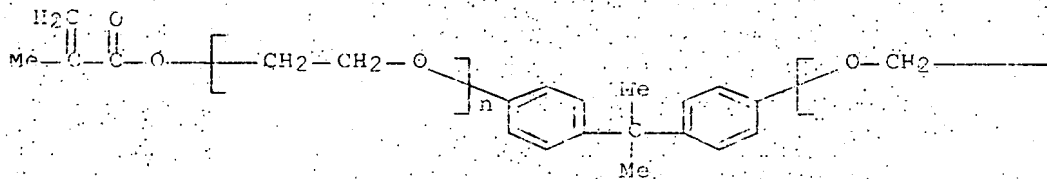
CM 1

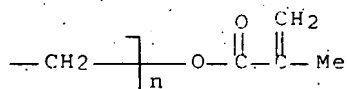
CRN 41637-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A

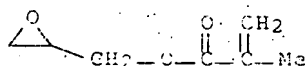




CM 2

CRN 106-91-2

CMF C7 H10 O3



RN 174460-83-4 HCAPLUS

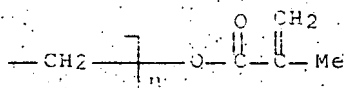
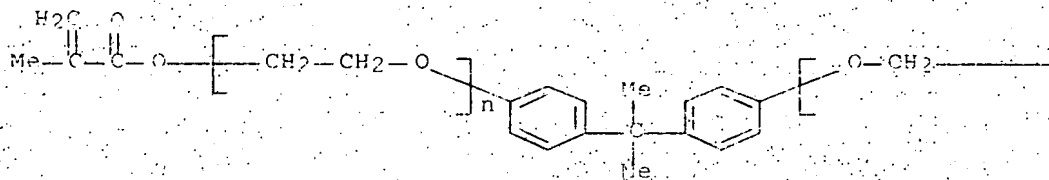
CN 2-Propenoic acid, 2-methyl-, oxydi-2,1-ethanediyl ester, polymer with
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -{(2-methyl-1-oxo-2-propenyl)oxy}poly(oxy-1,2-ethanediyl)] (9C1) (CA INDEX NAME)

CM 1

CRN 41637-38-1

CMF (C2 H4 C)n (C2 H4 O)n C23 H24 O4

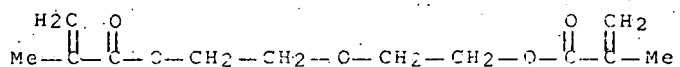
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CM 2

10/549,696

CRN 2358-84-1
CMF C12 H18 O5

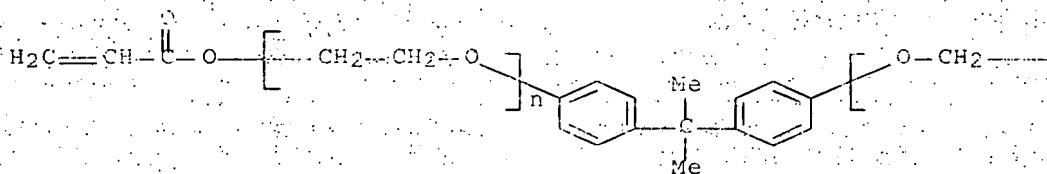


RN 174460-84-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(1-oxo-2-propenyl)oxylpoly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

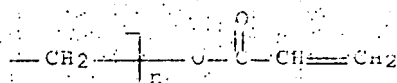
CM 1

CRN 64401-02-1
CMF (C2 H4 O)_n (C2 H4 O)_n C21 H20 O4
CCI PMS

PAGE 1-A

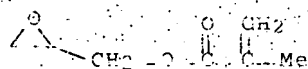


PAGE 1-B



CM 2

CRN 106-91-2
CMF C7 H10 O3



RN 174460-85-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with

α, α' -[(1-methylethylidene)bis(2,6-dibromo-4,1-phenylene)]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

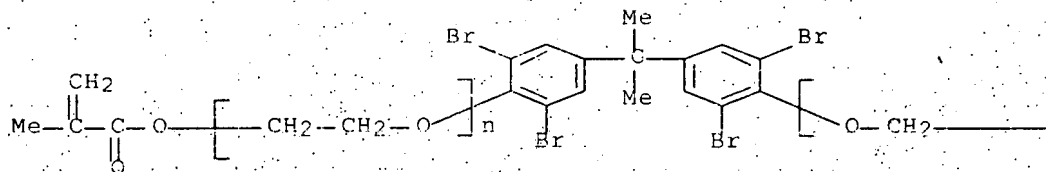
CM 1

CRN 103345-71-7

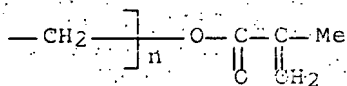
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CCI PMS

PAGE 1-A



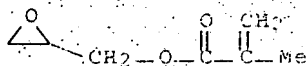
PAGE 1-B



CM 2

CRN 106-91-7

CMF C7 H10 O3



RN 174469-86-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

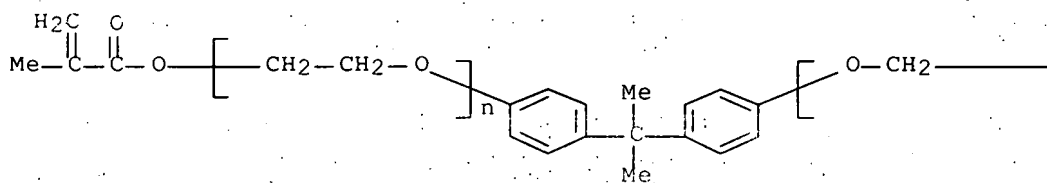
CM 1

CRN 41637-38-1

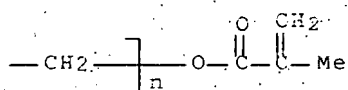
10/549,696

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4
CCI PMS

PAGE 1-A



PAGE 1-B

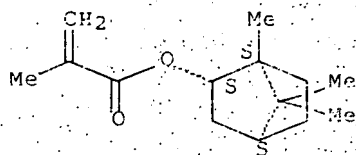


CM 2

CRN 7534-94-3

CMF C14 H22 O2

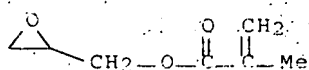
Relative stereochemistry.



CM 3

CRN 106-91-2

CMF C7 H10 O3



IC ICM G02B001-04

ICS C08F220-30

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 33

IT Lenses

(eyeglass, acrylic polymerizable composition for manufacturing organic glasses
for ophthalmic lenses)

IT 64696-13-5P 87028-19-1P 174460-82-3P
174460-83-4P 174460-84-5P 174460-85-6P
174460-86-7P

(acrylic polymerizable composition for manufacturing organic glasses for ophthalmic lenses)

L24 ANSWER 32 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:106702 HCAPLUS Full-text

DOCUMENT NUMBER: 124:212138

TITLE: Polymeric ophthalmic lens prepared from unsaturated polyoxyethylene monomers

INVENTOR(S): Molock, Frank F.; Nunez, Ivan M.; Ford, James D.

PATENT ASSIGNEE(S): Johnson and Johnson Vision Products, Inc., USA

SOURCE: U.S., 19 pp. Cont.-in part of U.S. Ser. No. 29,220, abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5484863	A	19960116	US 1993-156135	19931122
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CA 2117218	C	19940911	CA 1994-2117218	19940309
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CA 2117218	A1	19940911		
FI 9401122	A	19940911	FI 1994-1122	19940309
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NO 9400829	A	19940912	NO 1994-829	19940309
			<--	
EP 614921	A2	19940914	EP 1994-301661	19940309
			<--	
EP 614921	A3	19950802		
EP 614921	B1	19970820		
			R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, LU, NL, PT, SE	
CN 1099042	A	19950222	CN 1994-104312	19940309
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CN 1065545	B	20010509		
HU 67848	A2	19950529	HU 1994-699	19940309
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JP 06322051	A	19941122	JP 1994-65437	19940310

JP 3519446

B2

20040412

PRIORITY APPLN. INFO.:

US 1993-29220

B2 19930310

US 1993-156135

A 19931122

ED Entered STN: 21 Feb 1996

AB A soft hydrogel contact lens, is disclosed. The lens is derived from a crosslinked polymer comprising the reaction product of a monomer mixture comprising: (A) a monounsaturated polyoxyethylene monomer; (B) a diunsaturated polyoxyethylene monomer of relatively high mol. weight; (C) a diunsaturated polyoxyethylene monomer of relatively low mol. weight; and (D) a hydrophilic monomer selected from the group consisting of hydroxyethyl methacrylate, methacrylic acid, N,N-dimethylacrylamide, N-vinyl pyrrolidone, glycerol monomethacrylate, itaconic acid, and mixtures thereof. For example, a monomer mixture containing hydroxyethyl methacrylate 42.6, isocyanatoethyl methacrylate-diterminated PEG 15.0, isocyanatoethyl methacrylate-diterminated ethoxylated bisphenol A 10.0, isocyanatoethyl methacrylate-monoterminated monomethoxy PEG 31.0, and Darocur 1173 0.4% and a diluent mixture containing Glucam E-20 5.0 and ethoxylated bisphenol A 50%, was thoroughly mixed at the ratio of 60 to 40 and transferred to a contact lens mold. The mold was exposed to UV light for polymerization to give a clear hydrogel. The lens showed modulus 136 psi, elongation rate 114%, water content 58%, and O₂ permeability of 22+10-11cm²·mL O₂/s·mL·mmHg.

IT 174493-55-1P 174493-57-3P 174493-58-4P
174493-61-9P 174530-09-7P

(soft contact lenses manufacture with polymers prepared from unsaturated polyoxyethylene monomers)

RN 174493-55-1 HCAPLUS:

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[[[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

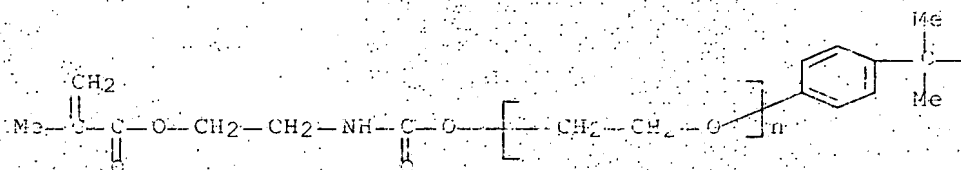
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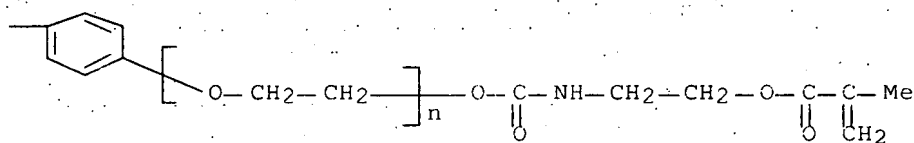
CRN 98312-09-5

CMF (C2 H4 O)_n (C2 H4 O)_n C29 H34 N2 O8

CCI PMS

PAGE 1-A

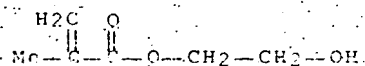




CM 2

CRN 868-77-9

CMF C6 H10 O3



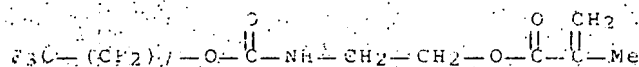
RN 174493-57-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(heptafluorooctyl)oxy]carbonyl]amino]ethyl ester, polymer with N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, α,α' -[1-methylethylidene]di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (PCI) (CA INDEX NAME)

CM 1

CRN 163068-27-7

CMF C15 H10 F17 N O4



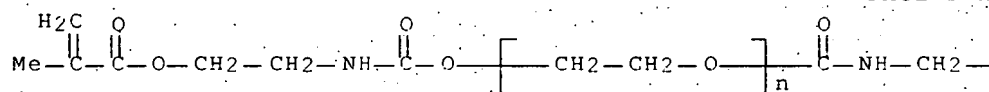
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CPN 05615-67-1

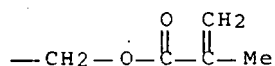
CMF (C22 H4 O)n C14 H20 N2 O7

CCI PMS

PAGE 1-A



PAGE 1-B



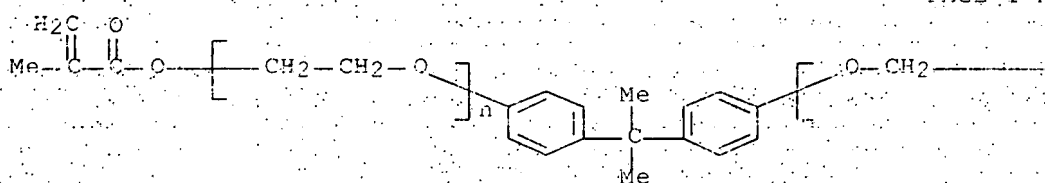
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CRN 41637-38-1

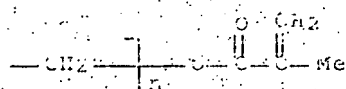
CMF (C2 H4 O)_n (C2 H4 O)_n C23 H24 O4

CCI PMS

PAGE 1-A



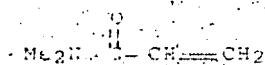
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CM 4

CRN 2680-02-7

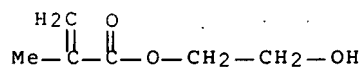
CMF C5 H9 N O



CM 5

CRN 868-77-9

CMF C6 H10 O3



RN 174493-58-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 N,N-dimethyl-2-propenamide, α,α' -[[(1-methylethylidene)di-
 4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-
 ethanediyl)] and α -[[(2-[(2-methyl-1-oxo-2-
 propenyl)oxy]ethyl)amino]carbonyl]- ω -[[(2-[(2-methyl-1-oxo-2-
 propenyl)oxy]ethyl)amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

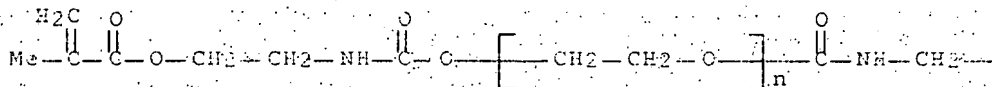
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CRN 95615-67-1

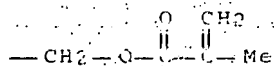
CMF (C2 H4 O) $_n$ C14 H20 N2 O7

CCI PMS

PAGE 1-A



PAGE 1-B

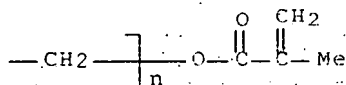
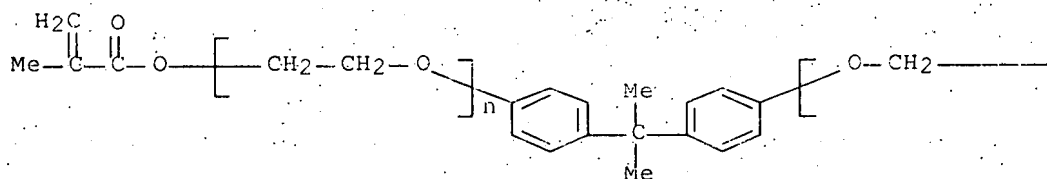


CM 2

CRN 41637-38-1

CMF (C2 H4 O) $_n$ (C2 H4 O) $_n$ C23 H24 O4

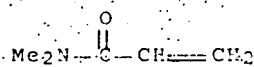
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CM 3

CRN 2680-03-7

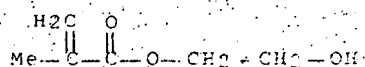
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CM 4

CRN 868-77-9

CMF C6 H10 O3



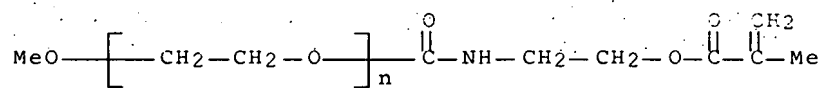
RN 174493-61-9 WCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)],
 α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]-
 ω -methoxypoly(oxy-1,2-ethanediyl) and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)
 (9CI) (CA INDEX NAME)

CM 1

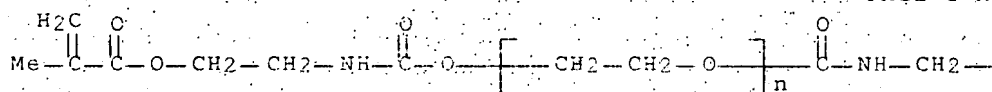
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CRN 118889-33-1
CMF (C2 H4 O)_n C8 H13 N O4
CCI PMS

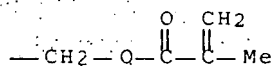


CM 2

CRN 95615-67-1
CMF (C2 H4 O)_n C14 H20 N2 O7
CCI PMS



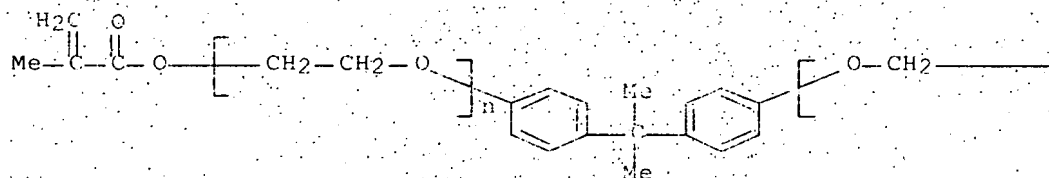
PAGE 1-A



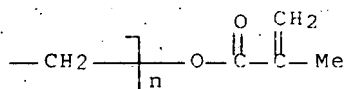
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CM 3

CRN 41637-38-1
CMF (C2 H4 O)_n (C2 H4 O)_m C23 H24 O4
CCI PMS



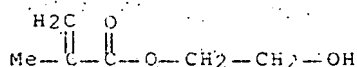
PAGE 1-A



CM 4

CRN 868-77-9

CMF C6 H10 O3



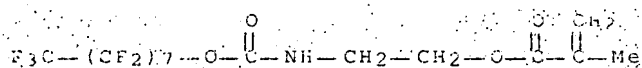
RN 174530-09-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)oxy]carbonyl]amino]ethyl ester, polymer with N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, α, α' -[[1-methylethylidene]di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)], α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -hydroxypoly(oxy-1,2-ethanediyl) and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 163068-27-7

CMF C15 H10 F17 N O4

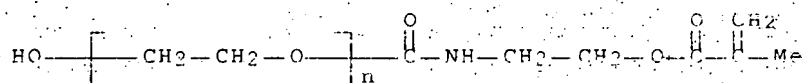


CM 2

CRN 110970-54-2

CMF (C2 H4 O)n C7 H11 N O4

CCI PMS



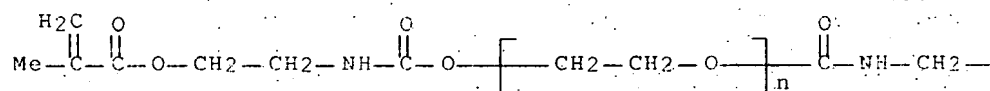
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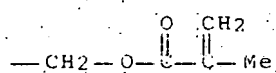
CMF (C2 H4 O)n C14 H20 N2 O7

CCI PMS

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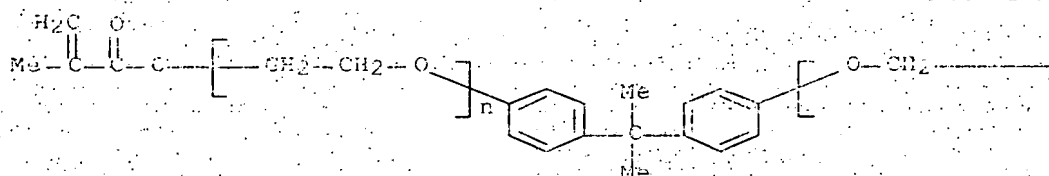
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CRN 41637-38-1

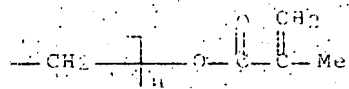
CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

CCI PMS

PAGE 1-A



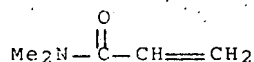
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CM 5

CRN 2680-03-7

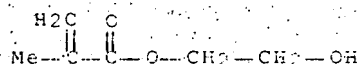
CMF C5 H9 N O



CM 6

CRN 868-77-9

CMF C6 H10 O3



IC ICM C06F226-02

ICS C06F236-20; G02C007-04

INCL 526301000

CC 63.7 (Pharmaceuticals)

IT Lenses

(contact, soft, soft contact lenses manufacture with polymers prepared from unsatd. polyoxyethylene monomers)

IT 39434-94-1P, Polyethylene glycol borate 174493-52-8P 174493-53-9P

174493-54-0P 174493-55-1P 174493-56-2P

174493-57-3P 174493-58-4P 174493-59-5P

174493-60-8P 174493-61-9P 174530-09-7P

(soft contact lenses manufacture with polymers prepared from unsatd. polyoxyethylene monomers)

L24 ANSWER 33 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:808084 HCAPLUS Full-text

DOCUMENT NUMBER: 123:208943

TITLE: Manufacture of water-containing contact lenses with vinyl copolymers

INVENTOR(S): Inomata, Kyoshi; Nakada, Shinji; Koinuma, Yasuyoshi

PATENT ASSIGNER(S): Nippon Oils & Fats Co Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.

CCDEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07168139	A	19950704	JP 1993-317039	19931216

PRIORITY APPLN. INFO.: JP 1993-317039 19931216

<--

ED Entered STN: 23 Sep 1995

AB Water-containing contact lenses with improved durability, oxygen permeability and stain-resistance are prepared with a copolymer containing crosslinking vinyl monomers. As an example, Epoxyester 3000M (the vinyl monomer; compound

A) and 2-hydroxyethyl methacrylate were reacted and made into contact lenses having oxygen permeability : $43 \times 10^{-11} \text{ mL(STP) cm/cm}^2 \cdot \text{s} \cdot \text{mmHg}$ and compressed strength: 420g.

IT 101181-05-9P 168061-62-9P 168061-63-0P
168061-64-1P 168061-65-2P 168061-66-3P
168061-67-4P 168061-68-5P 168061-69-6P
168061-70-9P

(manufacture of water-containing contact lenses with vinyl copolymers)

RN 101181-05-9 HCAPLUS

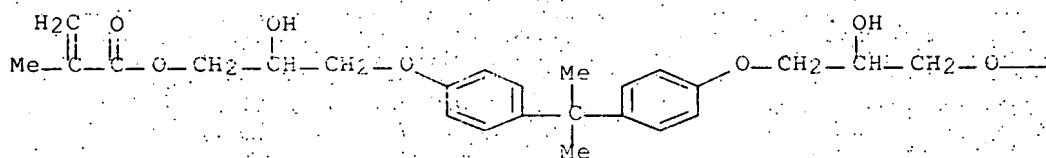
CN 2-Propenoic acid, 2-methyl-, 1,1'-[(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]] ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1.

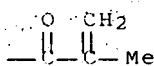
CRN 1565-94-2

CMF C29 H36 O8

PAGE 1-A



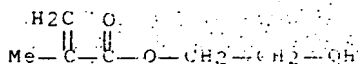
PAGE 1-B



CM 2.

CRN 869-77-9

CMF C6 H10 O3



RN 168061-62-9 HCAPLUS

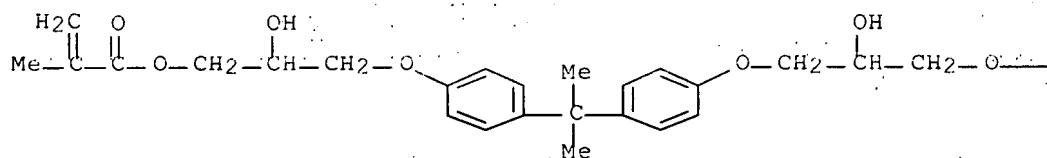
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with 1-ethenyl-2-pyrrolidinone and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

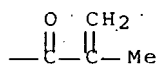
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CMF C29 H36 O8

PAGE 1-A



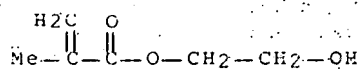
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CM 2

CRN 868-77-9

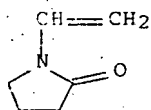
CMF C6 H10 O3



CM 3

CRN 88-12-0

CMF C6 H9 N O



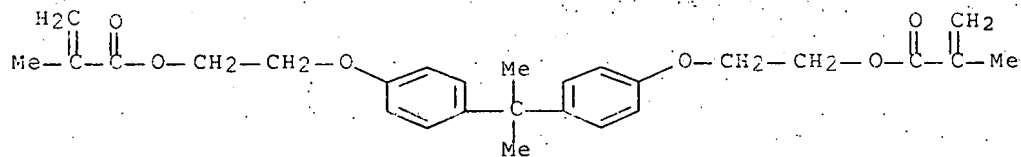
RN 168061-63-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 24448-20-2

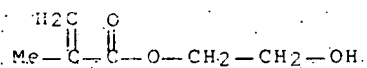
CMF C27 H32 O6



CM 2

CRN 868-77-9

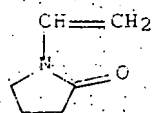
CMF C6 H10 O3



CM 3

CRN 88-12-0

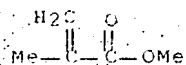
CMF C6 H9 N O



CM 4

CRN 90-62-6

CMF C5 H8 O2



RN 168061-64-1 HCAPLUS

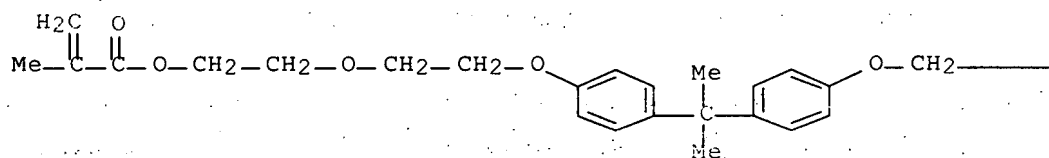
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

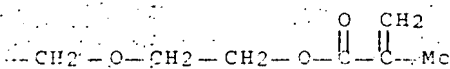
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



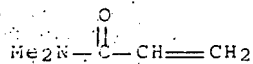
PAGE 1-B



CM 2

CRN 2680-03-7

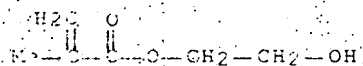
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CM 3

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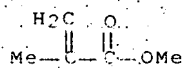
CMF C6 H10 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



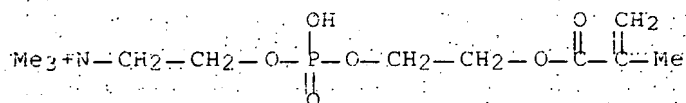
RN 168061-65-2 HCAPLUS

CN 3,5,8-Trioxa-4-phosphaundec-10-en-1-aminium, 4-hydroxy-N,N,N,10-tetramethyl-9-oxo-, chloride, 4-oxide, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

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CRN 146126-84-3

CMF C11 H23 N O6 P . Cl

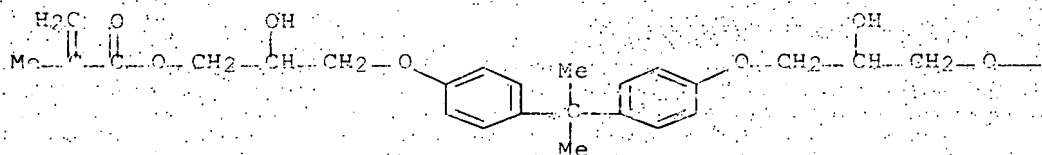


● Cl -

CM 2

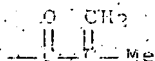
CRN 1565-94-2

CMF C29 H36 O8



PAGE 1-A

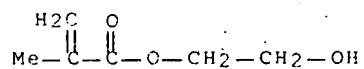
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CM 3

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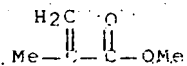
CMF C6 H10 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



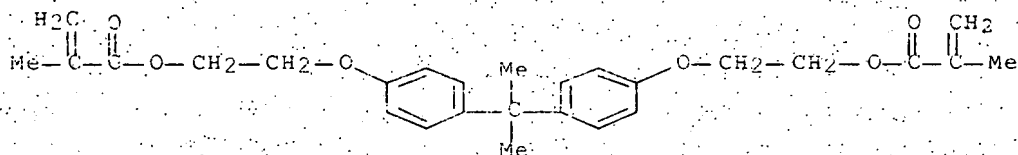
RN 168061-66-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-
2,1-ethanediyl) ester, polymer with methyl 2-methyl-2-propenoate and
3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI). (CA INDEX NAME)

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CRN 24448-20-2

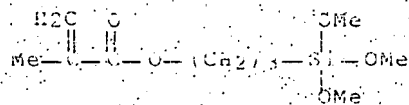
CMF C27 H32 O6



CM. 2

CRN: 2530-85-0

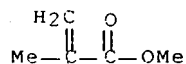
CNF C10 H20 O5 Si



CM 3

CRJ 80-62-6

CME. C5 H8 O2



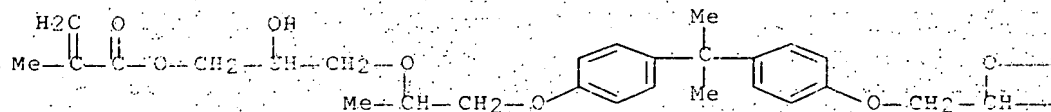
RN 168061-67-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(1-methyl-2,1-ethanediyl)oxy(2-hydroxy-3,1-propanediyl)] ester, polymer with methyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

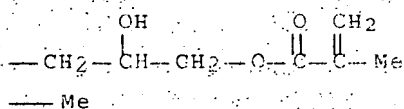
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CRN 162036-59-1

CMF C35 H48 O10



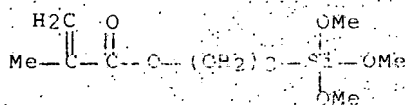
PAGE 1-B



CM 2

CRN 2530-85-0

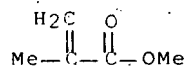
CMF C10 H20 O5 Si



CM 3

CRN 80-62-5

CMF C5 H8 O2



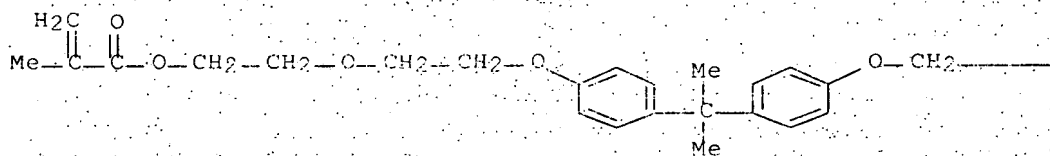
RN 168061-68-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl) ester, polymer with methyl 2-methyl-2-propenoate, 2,2,2-trifluoroethyl 2-methyl-2-propenoate and 3-(trimethoxysilyl)propyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

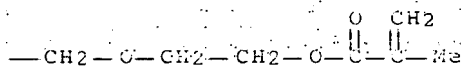
CM 1

CRN 56744-60-6

CMF. C31 H40 O8:



PAGE 1-A

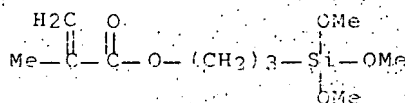


PAGE 1 - B

CM . . . 2

CRN 2530-85-0

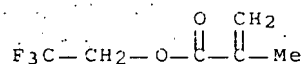
CMF C10 H20 C5 S1



CM 3'

CRN 352-8744

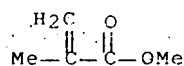
CMF. C6 H7 F3 O2.



CM 4

CRN 80-62-6

CMF C5 H8 O2



RN 168061-69-6 HCAPLUS

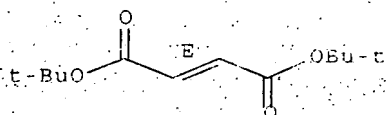
CM 2-Butenedioic acid (2E)-, bis(1,1-dimethylethyl) ester, polymer with ethyl 2-methyl-2-propenoate and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 7633-38-7

CMF C12 H20 O4

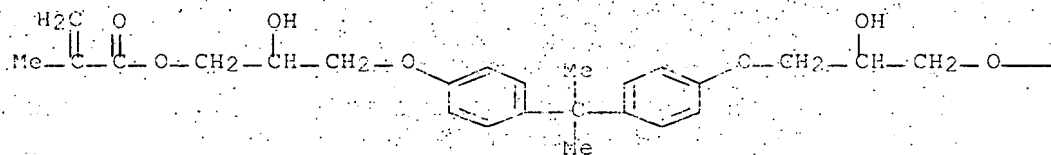
Double bond geometry as shown.



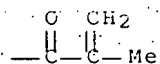
CM 2

CRN 1565-94-2

CMF C29 H36 O8

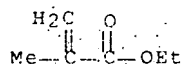


PAGE 1-A



CM 3

CRN 97-63-2

$$\text{CMF} \quad \text{C6} \quad \text{H10} \quad \text{O2}$$


RN 168061-70-9 HCAPLUS

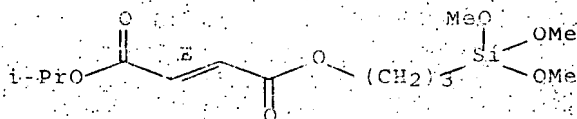
CN 2-Butenedioic acid (2E)-, 1-methylethyl 3-(trimethoxysilyl)propyl ester, polymer with (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 165967-78-2

CMF C13 H24 O7 Si

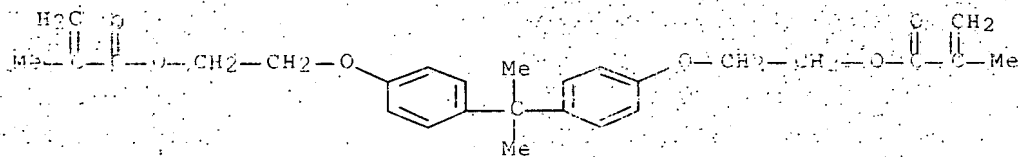
Double bond geometry as shown.



CM 2

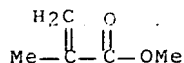
CRN 24448-20-2

CMF C27 H32 O6



CM 3

CRN 80-62-6
CMF C5 H8 O2



IC ICM G02C007-04
ICS C08F020-28; C08F290-06
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 38
IT Lenses
(contact, water-containing; manufacture of water-containing contact lenses with vinyl copolymers)
IT 168061-05-9P 168061-62-9P 168061-63-0P
168061-64-1P 168061-65-2P 168061-66-3P
168061-67-4P 168061-68-5P 168061-69-6P
168061-70-9P
(manufacture of water-containing contact lenses with vinyl copolymers)

L24 ANSWER 34 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:794923 HCAPLUS Full-text

DOCUMENT NUMBER: 123:179545

TITLE: Method of forming shaped hydrogel articles including contact lenses using inert displaceable diluents

INVENTOR(S): Nunez, Ivan M.; Molock, Frank F.; Elliott, Laura D.; Ford, James D.

PATENT ASSIGNEE(S): Johnson and Johnson Vision Products, Inc., USA

SOURCE: Can. Pat. Appl., 68 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2128118	A1	19950123	CA 1994-2128118	19940715
US 5457140	A	19951010	US 1993-96145	19930722
IL 110123	A	19980715	IL 1994-110123	19940624
JP 07109415	A	19950425	JP 1994-186958	19940718
AU 9467568	A	19950202	AU 1994-67568	19940719
AU 677062	B2	19970410		
FI 9433160	A	19950123	FI 1994-2460	19940721
NO 9402737	A	19950123	NO 1994-2737	19940721
EP 642039	A2	19950308	EP 1994-305394	19940721

EP 642039	A3	19950726		
EP 642039	B1	20011031		
R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, LU, NL, PT, SE				
BR 9402904	A	19950411	BR 1994-2904	19940721
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CN 1058025	B	20001101		
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PRIORITY APPLN. INFO.:			US 1993-96145	A 19930722
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			US 1995-410025	A3 19950324
			<--	

ED Entered STN: 16 Sep 1995

AB Shaped hydrogel articles such as soft contact lenses are prepared by the steps of: (1) molding or casting a polymerization mixture comprising: (a) a monomer mixture comprising a major proportion of one or more hydrophilic monomers such as 2-hydroxyethyl methacrylate, and one or more crosslinking monomers; and (b) an inert, displaceable diluent selected from the group consisting of: (i) ethoxylated alkyl glucoside; (ii) ethoxylated bisphenol A; (iii) polyethylene glycol; (iv) mixture of propoxylated and ethoxylated alkyl glucoside; (v) single phase mixture of ethoxylated or propoxylated alkyl glucoside and C2-12 dihydric alc.; (vi) adduct of ϵ -caprolactone and C2-6 alkanediols and triols; (vii) ethoxylated C3-6 alkanetriol; and (viii) mixts. of one or more of (i) through (vii), under conditions to polymerize said monomer mixture to produce a shaped gel of a copolymer of said monomers and said diluent; and (2) thereafter replacing said diluent with water.

IT 167859-50-9P 167859-51-0P

(forming shaped hydrogel articles including contact lenses using inert displaceable diluents)

RN 167859-50-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, α, α' -[[(1-methylethylidene)di-4,1-phenylene]bis[α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)] and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]

10/549,696

ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy
poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME).

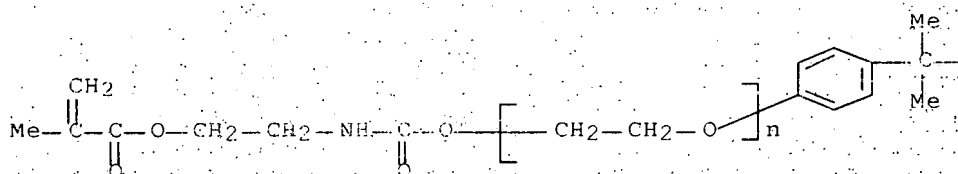
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CRN 98312-09-5

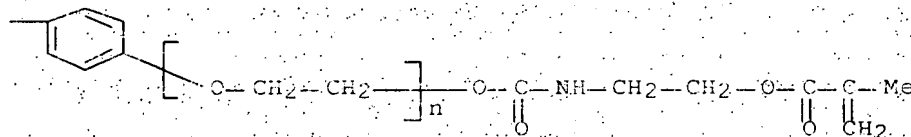
CMF (C2 H4 O)_n (C2 H4 O)_n C29 H34 N2 O8

CCI PMS

PAGE 1-A



PAGE 1-B



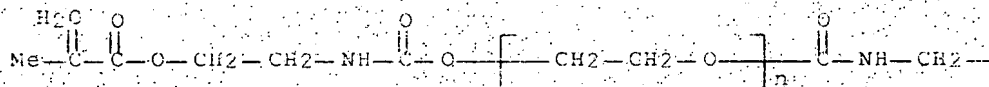
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CRN 95615-67-F

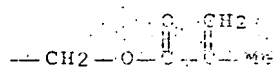
CMF (C2 H4 O)_n C14 H20 N2 O7

CCI PMS

PAGE 1-A



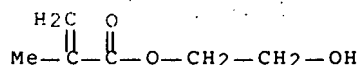
PAGE 1-B



CM 3

CRN 868-77-9

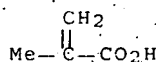
CMF C6 H10 O3



CM 4

CRN 79-41-4

CMF C4 H6 O2



RN 167859-51-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 N,N-dimethyl-2-propenamide, α -[(methylamino)carbonyl]- ω -[2-
 [(1-oxo-2-propenyl)oxy]ethoxy]poly(oxy-1,2-ethanediyl),
 α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -
 [2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)] and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)] (9CT)
 (CA INDEX NAME)

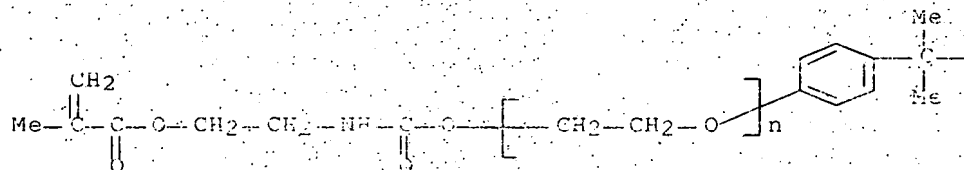
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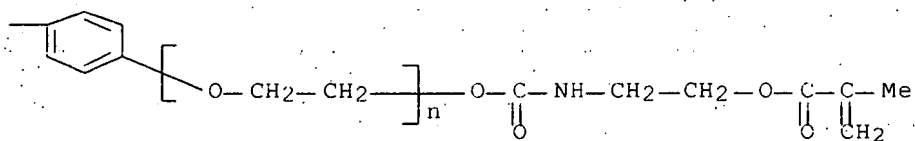
CRN 98312-09-5

CMF (C2 H4 O)_n (C2 H4 O)_n C29 H34 N2 O3

CCI PMS

PAGE 1-A



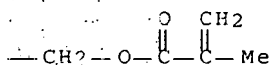
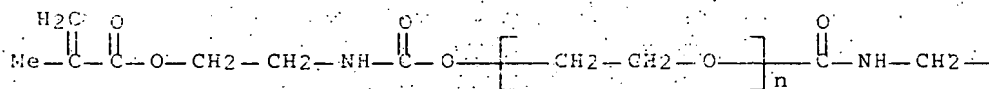


CM 2

CRN 95615-67-1

CMF (C2 H4 O)_n C14 H20 N2 O7

CCI PMS

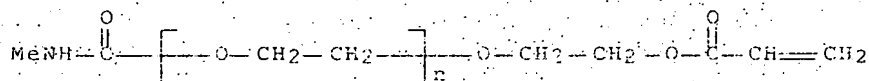


CM 3

CRN 80501-34-4

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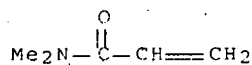
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CM 4

CRN 2680-03-7

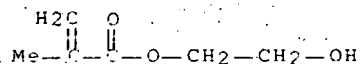
CMF C5 H9 N O



CM 5

CRN 868-77-9

CMF C6 H10 O3



IC ICM B29D011-00
 ICS B29C071-00; C08F002-06; G02C007-04; G01N025-48
 CC 63-7 (Pharmaceuticals)
 IT Lenses
 (contact, forming shaped hydrogel articles including contact lenses using inert displaceable diluents)
 IT 868-77-9DP, polymers 868-77-9P 137737-62-3P 167859-50-9P
 167859-51-0P 174588-08-0P
 (forming shaped hydrogel articles including contact lenses using inert displaceable diluents)

L24 ANSWER 35 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:550907 HCAPLUS Full-text

DOCUMENT NUMBER: 122:291777

TITLE: Crosslinked polymers forming hydrogels, and soft contact lenses therefrom

INVENTOR(S): Molock, Frank F.; Ford, James D.; Nunez, Ivan M.

PATENT ASSIGNEE(S): Johnson and Johnson Vision Products, Inc., USA

SOURCE: Eur. Pat. Appl., 43 pp.

CODEN: EPXXEW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 614921	A2	19940914	EP 1994-301661	19940309
EP 614921	A3	19950802		
EP 614921	B1	19970820		
P: AT, BE, CH, DE, DK, ES, FR, GE, IE, IT, LI, LU, NL, PT, SE				
US 5484863	A	19960116	US 1993-156135	19931122

PRIORITY APPLN. INFO.: US 1993-29220 A 19930310

US 1993-156135 A 19931122

ED Entered STN: 17 May 1995

AB The polymer is the reaction product of a monomer mixture comprising (A) a monounsaturated polyoxyethylene monomer; (B) a diunsaturated polyoxyethylene monomer

of mol. weight 2000-11,000; (C) a diunsatd. polyoxyethylene monomer of mol. weight <2000; and (D) as hydrophilic monomer(s) hydroxyethyl methacrylate (I), methacrylic acid, N,N- dimethylacrylamide (II), N-vinylpyrrolidone, glycerol monomethacrylate, and/or itaconic acid. Polymerization of a blend of I 22.86, II 12.0, CH₂:CMeCO₂CH₂CH₂NHCO(OCH₂CH₂)nO₂CNHCH₂CH₂O₂CCMe:CH₂ (from PEG 4500) 10.2, Me(OCH₂CH₂)nO₂CNHCH₂CH₂O₂CCMe:CH₂ (from PEG 2000) 1.5, ethoxylated bisphenol A (mol. weight 580) bis(methacryloyloxyethylcarbamate) 9.0, CF₃(CF₂)₇O₂CNHCH₂CH₂O₂CCMe:CH₂ 4.2, Darocur 1173 0.24, and polyethylene glycol borate (inert diluent) 40% at 65° for 45 min and molding under UV irradiation at 65° gave a contact lens with equilibrium water content 53%, O permeability (Dk value) 22, modulus 108 psi, and elongation 79%.

IT 163068-28-8P 163068-30-2P 163068-31-3P

(crosslinked polymer hydrogels for soft contact lenses)

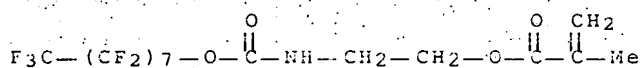
RN 163068-28-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)oxy]carbonyl]amino]ethyl ester, polymer with N,N-dimethyl-2-propenamide, 2-hydroxyethyl 2-methyl-2-propenoate, α,α'-[[1-methylethylidene]di-4,1-phenylene]bis[ω-[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)], α-[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]-ω-methoxypoly(oxy-1,2-ethanediyl) and α-[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]-ω-[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 163068-27-7

CMF C15 H10 F17 N O4

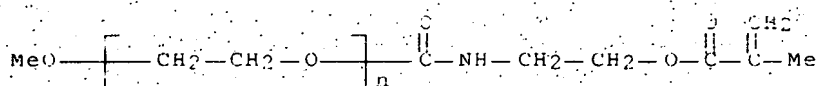


CM 2

CRN 18889-33-1

CMF (C2 H4 O)_n C8 H13 N O4

CCI PMS



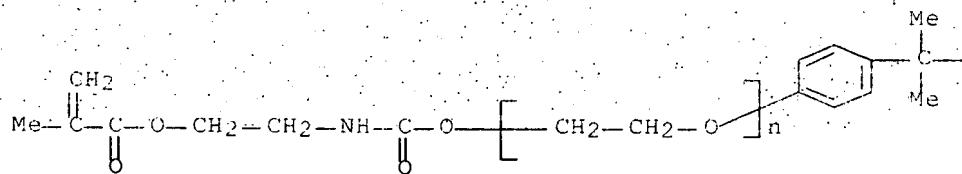
CM 3

CRN 98312-09-5

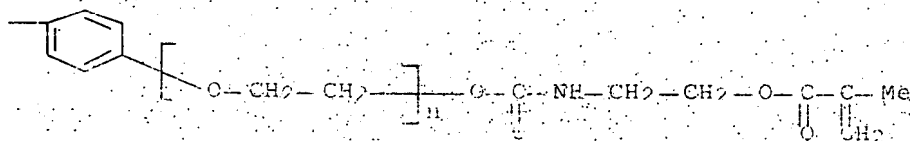
CMF (C2 H4 O)_n (C2 H4 O)_n C29 H34 N2 O8

CCI PMS

PAGE 1-A



PAGE 1-B



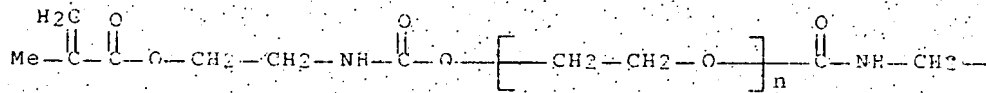
CM 4

CRN 95615-67-1

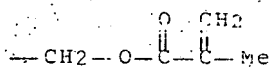
CMF (C2 H4 O)_n C14 H20 N2 O7

CUL PMS

PAGE 1-A



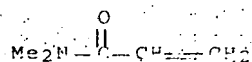
PAGE 1-B



CM 5

CRN 2680-03-7

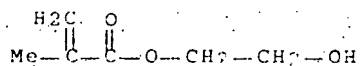
CMF C5 H9 N O



CM 6

CRN 868-77-9

CMF C6 H10 O3



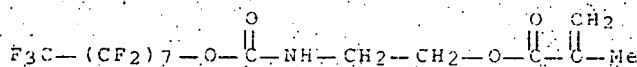
RN 163068-30-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-[[[(heptadecafluorooctyl)oxy]carbonyl]amino]ethyl ester, polymer with N,N-dimethyl-2-propenamide, α,α' -[[1-methylethylidene]di-4,1 phenylene]bis[ω -[[[2-[[2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)], α -[[[2-[[2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -methoxypoly(oxy-1,2-ethanediyl) and α -[[[2-[[2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[[2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME).

CM 1

CRN 163068-27-7

CMF C15 H10 F17 N O4

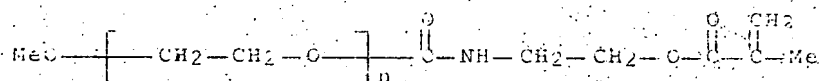


CM 2

CRN 118881-33-1

CMF (C2 H4 O)_n C5 H13 N O4

CCI PMS



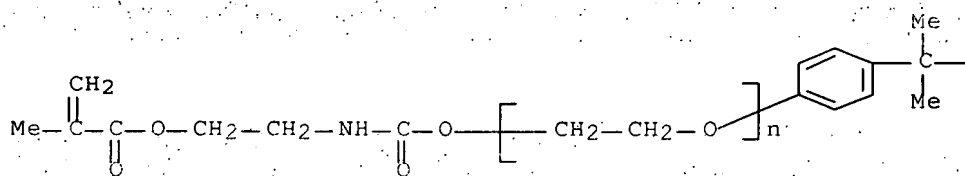
CM 3

CRN 98312-09-5

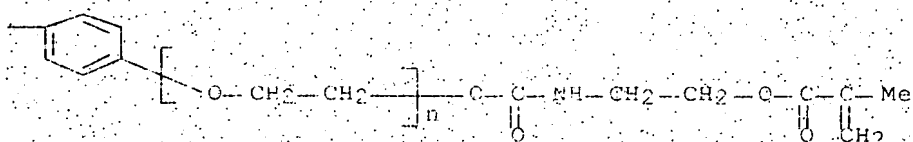
10/549,696

CMF (C2 H4 O)n (C2 H4 O)n C29 H34 N2 O8
CCI PMS

PAGE 1-A



PAGE 1-B



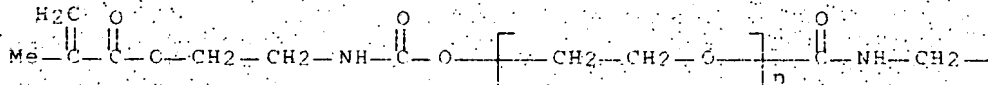
CM 4

CRN 95615-67-1

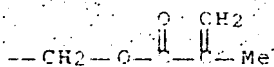
CMF (C2 H4 O)n C14 H26 N2 O7

CCI PMS

PAGE 1-A



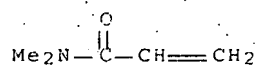
PAGE 1-B



CM 5

CRN 2680-03-7

CMF C5 H9 N O



RN 163068-31-3 HCAPLUS

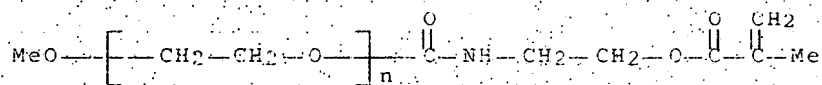
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
 α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -
 [[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)], α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -methoxypoly(oxy-1,2-ethanediyl) and α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]- ω -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

CM 1

CRN 118889-33-1

CMF (C2 H4 O)_n C8 H13 N O4

CCI PMS

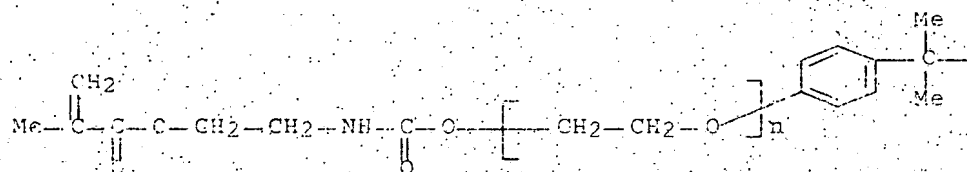


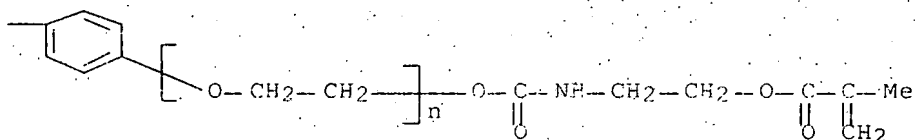
CM 2

CRN 98312-09-5

CMF (C2 H4 O)_n (C2 H4 O)_n C29 H34 N2 O8

CCI PMS



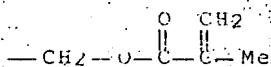
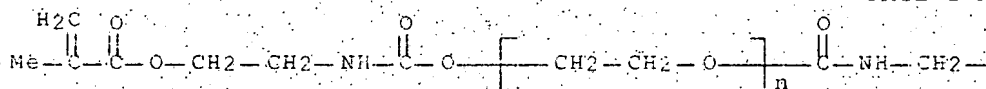


CM 3

CRN 95615-67-1

CMF (C2 H4 O)n C14 H20 N2 O7

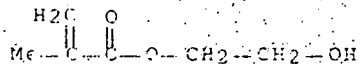
CCI PMS



CM 4

CRN 868-77-9

CMF C6 H10 O3



IC ICM C08F292-06

ICS G02B001-04

CC 35-4 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 38, 63

IT Lenses

(contact, crosslinked polymer hydrogels for soft contact lenses)

IT 163063-29-3P 163068-29-9P 163062-30-2P

163068-31-3P

(crosslinked polymer hydrogels for soft contact lenses)

L24 ANSWER 36 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:385949 HCAPLUS Full-text
 DOCUMENT NUMBER: 122:142637
 TITLE: molds for manufacturing plastic lenses having high transparency and sealing spacers for the molds
 INVENTOR(S): Miura, Yoshihiro; Taki, Kazuya; Niikura, Hiroshi
 PATENT ASSIGNEE(S): Nippon Kogaku Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06155489	A	19940603	JP 1992-315579	19921102
<--				
PRIORITY APPLN. INFO.:			JP 1992-315579	19921102
<--				

ED Entered STN: 03 Mar 1995

AB Molds for manufacturing plastic lenses comprise a mating pair of plates with sealing spacers, wherein the spacer contains polyethylene, polyacetal, polyamide, poly(ethylene phthalate), polypropylene, and/or polytetrafluoroethylene. A hardenable liquid composition [containing e.g. 2,2'-bis(4-methacryloxyethoxy-3,5-dibromophenyl)propane and styrene] is poured into a gap between the plates to form lenses having high transparency.

IT 85583-94-4P

(molds for manufacturing plastic lenses having high transparency and sealing spacers for the molds)

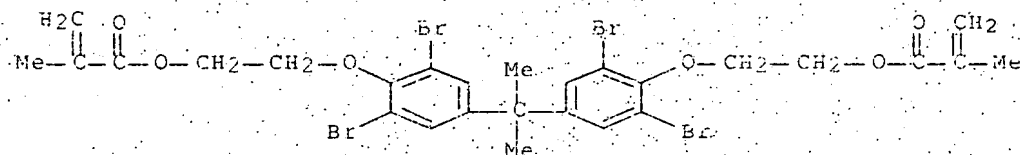
RN 85583-94-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[(2,6-dibromo-4,1-phenylene)oxy-2,1-ethanediyl] ester, polymer with ethenylbenzene (9CI)
(CA INDEX NAME)

CM 1

CRN 67006-39-7

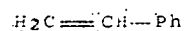
CMF C27 H28 Br4 O6



CM 2

CPN 100-42-5

CMF C8 H8



IC ICM B29C039-26
 ICS B29C033-38; B29C033-76; G02B001-04; G02C007-02
 ICI B29K105-32, B29L011-00
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s): 38
 IT Lenses
 (molds for manufacturing plastic lenses having high transparency and
 sealing spacers for the molds)
 IT 9002-84-0P, Polytetrafluoroethylene 9002-88-4P 9003-07-0P,
 Polypropylene 25610-19-9P, Poly(ethylene phthalate)
 85583-94-4P 161249-82-7P
 (molds for manufacturing plastic lenses having high transparency and
 sealing spacers for the molds)

L24 ANSWER 37 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:364159 HCAPLUS Full-text

DOCUMENT NUMBER: 122:142654

TITLE: Manufacture of eyeglass lenses with high dyeing
 affinity and refractive index

INVENTOR(S): Honda, Tomoji; Kaetsu, Isao

PATENT ASSIGNEE(S): Tokyo Keikaku Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06289334	A	19941018	JP 1993-100096	19930405

PRIORITY APPLN. INFO.: JP 1993-100096 19930405

ED Entered STN: 22 Feb 1995

AB The plastic lenses are prepared by radical copolymn. of 30-80 weight%
 dimethacryl ester derivs. (e.g. 2,2-bis[4- (methacryloxyethoxy)phenyl]propane)
 and 10-50 weight% bifunctional methacryl ester derivs. (e.g. 2,2-bis[4-
 (methacryloxytriethoxy)phenyl] propane) as crosslinking agents and monomers.
 The eyeglass lenses have high dyeing affinity and refractive index.

IT 138551-37-8P 161034-60-2P

(manufacture of eyeglass lenses with high dyeing affinity and refractive
 index)

RN 138551-37-8 HCAPLUS

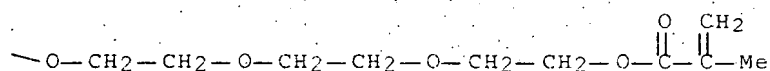
CM 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-
 2,1-ethanediyl) ester, polymer with α,α' -[(1-
 methylethylidene)di-4,1-phenylene]bis[o-[(2-methyl-1-oxo-2-
 propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 41637-38-1

CMF (C2 H4 O)n (C2 H4 O)n C23 H24 O4

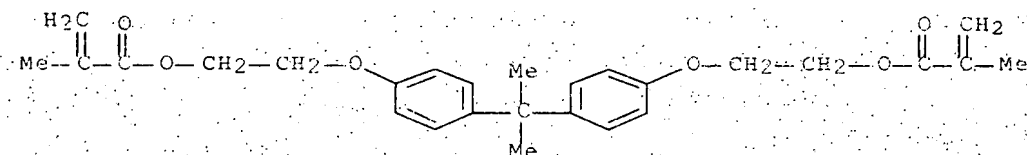
CCI PMS



CM 2

CRN 24448-20-2

CMF C27 H32 O6



IC ICM G02C007-04

ICS C08F299-02

CC 63-7 (Pharmaceuticals)

IT Lenses

(eyeglass, manufacture of eyeglass lenses with high dyeing affinity and refractive index)

IT 138551-37-8P 161034-60-2P

(manufacture of eyeglass lenses with high dyeing affinity and refractive index)

L24 ANSWER 38 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:347022 HCAPLUS Full-text

DOCUMENT NUMBER: 122:115031

TITLE: Manufacture of plastic eyeglass lenses with high refractive index and good dyeability

INVENTOR(S): Honda, Tomoji; Kaetsu, Isao

PATENT ASSIGNEE(S): Tokyo Keikaku Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06308434	A	19941104	JP 1993-114295	19930419
			<--	
PRIORITY APPLN. INFO.:			JP 1993-114295	19930419
			<--	

ED Entered STN: 11 Feb 1995

AB The title lenses are prepared by radical cast polymerization of a composition containing 30-80 parts of CH₂:CXCO(OCH₂CH₂)nO-p-C₆H₄-CMe₂-p-C₆H₄-O(CH₂CH₂O)nCOCX:CH₂ (1; X = H, Me; n = 1-8), 10-50 parts of

CH₂:CXCO₂CH₂CH(OH)CH₂OCH₂CHMeO-p-C₆H₄-CMe₂-p-C₆H₄-OCHMeCH₂OCH₂CH(OH)CH₂OCOCHX:CH₂ (II; X = H, Me), and 10-50 parts of copolymerizable monomer. For example, a lens prepared from a copolymer of I (X = Me, n = 2), II (X = H), α-methylstyrene, and divinylbenzene showed a refractive index 1.564 and a visible light transmission rate 90%. After immersion of the lens in a solution of Dispersion Brown 3 for 10 min, the visible light transmission rate became 36%, demonstrating its good dyeability.

IT 160819-24-9P 160819-25-0P

(manufacture of plastic eyeglass lenses with high refractive index and good dyeability)

RN 160819-24-9 HCAPLUS

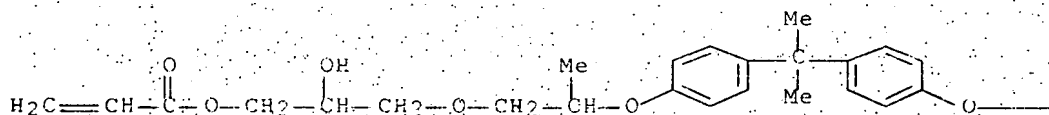
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl) ester, polymer with diethenylbenzene, (1-methylethenyl)benzene and (1-methylethylidene)bis[4,1-phenyleneoxy(2-methyl-2,1-ethanediyl)oxy(2-hydroxy-3,1-propanediyl)] di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

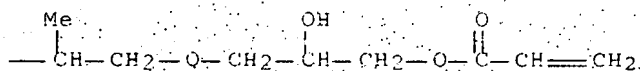
CRN 120123-32-2

CMF C33 H44 O10

PAGE 1-A



PAGE 1-B

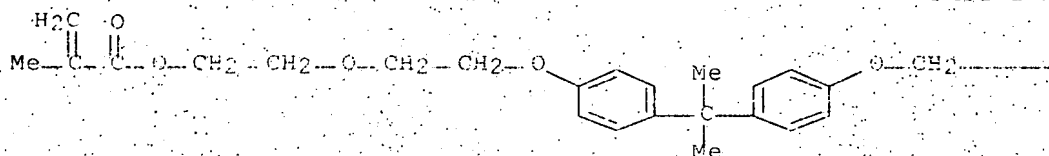


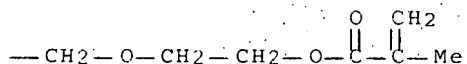
CM 2

CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



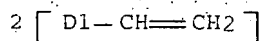


CM 3

CRN 1321-74-0

CMF C10 H10

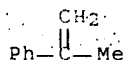
CCI IDS



CM 4

CRN 98-83-9

CMF C9 H10



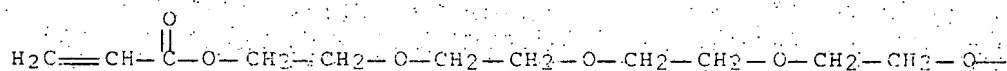
RN 160819-25-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-methyl-2,1-ethanediyl)oxy(2-hydroxy-3,1-propanediyl)] ester, polymer with diethenylbenzene, (1-methylethenyl)benzene and (1-methylethylidene)bis(4,1-phenyleneoxy-3,6,9,12-tetraoxatetradecane-14,1-diyl) di-2-propenoate (9CI) (CA INDEX NAME)

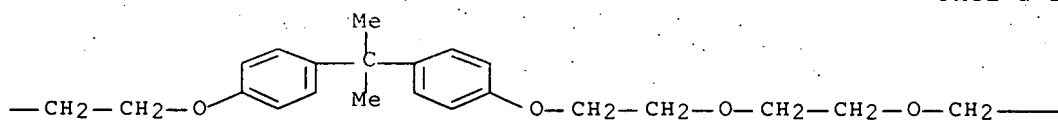
CM 1

CRN 118443-66-6

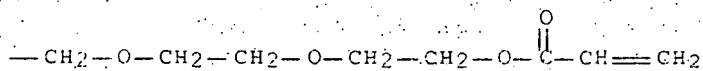
CMF C41 H60 O14



PAGE 1-B



PAGE 1-C

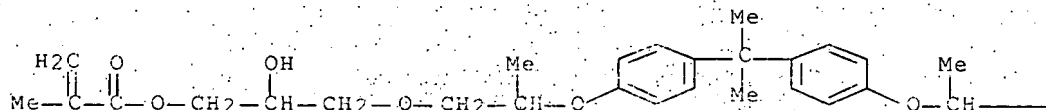


CM 2

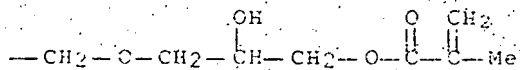
CRN 83900-58-7

CMF C35 H48 O10

PAGE 1-A



PAGE 1-B

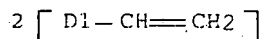


CM 3

CRN 1321-74-0

CMF C10 H10

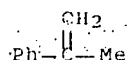
CCI IDS



CM 4

CRN 98-83-9

CMF C9 H10



IC ICM G02C007-02

ICS C08F299-02; G02B001-04

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38

IT Lenses

(eyeglass, manufacture of plastic eyeglass lenses with high refractive index and good dyeability)

IT 160819-24-9P 160819-25-0P

(manufacture of plastic eyeglass lenses with high refractive index and good dyeability)

L24 ANSWER 39 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:306828 HCAPLUS Full-text

DOCUMENT NUMBER: 122:89405

TITLE: Polymeric ophthalmic lens with crosslinker containing saccharide residue

INVENTOR(S): Molock, Frank P.; Nunez, Ivan M.; Ford, James D.; Elliott, Laura D.

PATENT ASSIGNEE(S): Johnson and Johnson Vision Products, Inc., USA

SOURCE: Eur. Pat. Appl. 16 pp.

CODEN: EPYXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 620455	A2	19941019	EP 1994-302524	19940411
EP 620455	A3	19950802		
EP 620455	B1	20001220		
R: AT, BE, CH, DE, DK, ES, FR, GB, IE, IT, LI, LU, NL, PT, SE				
IL 109221	A	19930405	IL 1994-109221	19940405
CA 2120892	A1	19941013	CA 1994-2120892	19940408

AU 9459401	A	19941013	AU 1994-59401	19940411
			<--	
AU 693777	B2	19980709		
FI 9401658	A	19941013	FI 1994-1658	19940411
			<--	
NO 9401299	A	19941013	NO 1994-1299	19940411
			<--	
BR 9401462	A	19941227	BR 1994-1462	19940411
			<--	
ZA 9402478	A	19951011	ZA 1994-2478	19940411
			<--	
AT 198234	T	20010115	AT 1994-302524	19940411
			<--	
JP 06345982	A	19941220	JP 1994-97020	19940412
			<--	
CN 1100110	A	19950315	CN 1994-105291	19940412
			<--	
CN 1063551	B	20010321		
HU 67922	A2	19950529	HU 1994-1040	19940412
			<--	
HU 214634	B	19980428		
US 5690953	A	19971125	US 1996-712657	19960913
			<--	
PRIORITY APPLN. INFO.:			US 1993-17709	A 19930412
			<--	
			US 1993-164504	B1 19931209
			<--	
			US 1995-409385	B1 19950323
			<--	

ED Entered STN: 24 Jan 1995

AB An ophthalmic lens, particularly a soft hydrogel contact lens, is made from a crosslinked polymer made by reacting a hydrophilic monomer with a crosslinking amount of a polyfunctional compound containing a saccharide residue. The preferred hydrophilic monomer is a mixture of the following individual hydrophilic monomers: (a) the reaction product of a free radical reactive monoisocyanate and a monoalkoxy polyalkyl ether, (b) N,N-dimethylacrylamide, and optionally (c) hydroxyethyl methacrylate. The preferred polyfunctional compound is a prepolymer derived from an alkoxyated glucose or sucrose. Thus, hydroxyethyl methacrylate 94.60, Glucan E 20-PEG 1000 (preparation given) 5.0, and Darocur-1173 0.40% was mixed under reduced pressure and exposed to UV light at 60° and polymerized in molds to obtain contact lenses.

IT 160422-13-9P

(polymeric ophthalmic lens with crosslinker containing saccharide residue)

RN 160422-13-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with

2,4-diisocyanato-1-methylbenzene, α -hydroxy-

hydroxypoly(oxy-1,2-ethanediyl), α -hydroxy-hydroxypoly(oxy-

1,2-ethanediyl) ether with methyl β -D-glucopyranoside (4:1),

2-isocyanatoethyl 2-methyl-2-propenoate, α,α' -[[1-

methylethylidene]di-4,1-phenylene]bis[ω -[[[2-[(2-methyl-1-oxo-2-

propenyl)oxy]ethyl]amino]carbonyl]oxy]poly(oxy-1,2-ethanediyl)] and

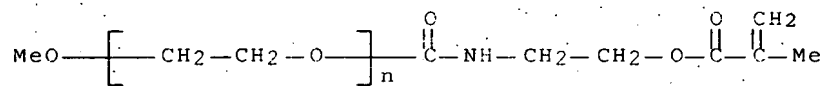
α -[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]-

ω -methoxypoly(oxy-1,2-ethanediyl). (SCT) (CA INDEX NAME)

CM 1

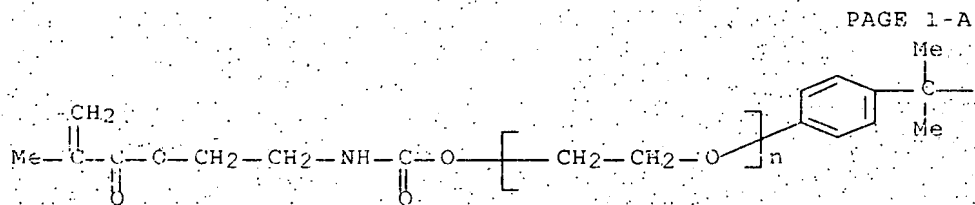
CRN 118889-33-1

CMF (C₂ H₄ O)_n C₈ H₁₃ N O₄
 CCI PMS

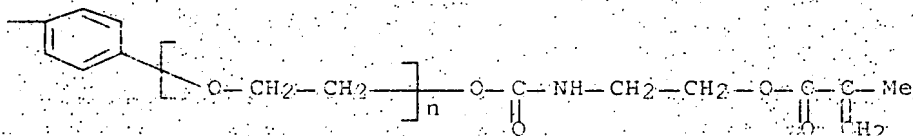


CM 2

CRN 98312-09-5
 CMF (C₂ H₄ O)_n (C₂ H₄ O)_n C₂₉ H₃₄ N₂ O₈
 CCI PMS

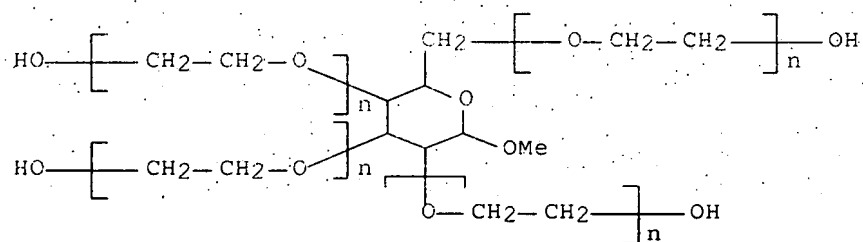


PAGE 1-B



CM 3

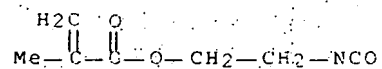
CRN 68239-42-9
 CMF (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n (C₂ H₄ O)_n C₇ H₁₄ O₆
 CCI PMS



CM 4

CRN 30674-80-7

CMF C7 H9 N O3

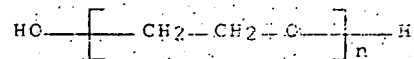


CM 5

CRN 25322-68-3

CMF (C2 H4 O)_n H2 O

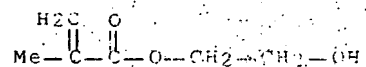
CCI PMS



CM 6

CRN 869-77-9

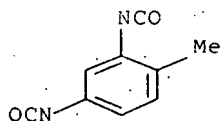
CMF C6 H10 O3



CM 7

CRN 584-84-9

CMF C9 H6 N2 O2

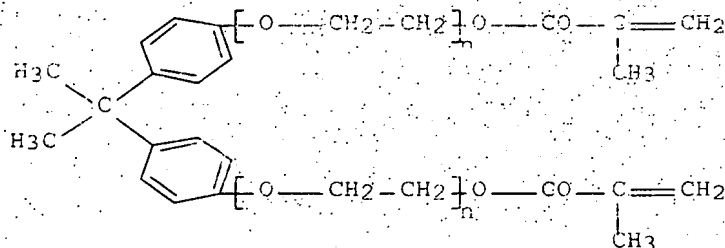


IC ICM G02B001-04
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 35, 38
 IT Lenses
 (contact, polymeric ophthalmic lens with crosslinker containing
 saccharide residue)
 IT Lenses
 (contact, soft, polymeric ophthalmic lens with crosslinker containing
 saccharide residue)
 IT Lenses
 (intraocular, polymeric ophthalmic lens with crosslinker containing
 saccharide residue)
 IT 160422-11-7P 160422-11-7P 160422-12-8P 160422-13-9P
 (polymeric ophthalmic lens with crosslinker containing saccharide
 residue)

L24 ANSWER 40 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995:294397 HCAPLUS Full-text
 DOCUMENT NUMBER: 122:89517
 TITLE: manufacture of intraocular lenses with copolymers
 INVENTOR(S): Miura, Morikazu; Hatsutori, Yasuko
 PATENT ASSIGNEE(S): Asahi Chemical Ind, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06283147	A	19941011	JP 1993-80578	19930407
			<--	
PRIORITY APPLN. INFO.:			JP 1993-80578	19930407
			<--	

ED Entered STN: 14 Jan 1995
 GI



AB Intraocular lenses are manufactured with copolymers containing arm. group, alkyl group, ethylene glycol unit, and ester group, having $T_g = 40-80^\circ$ as determined from $\tan\delta$ values by the dynamic viscosity tests, having $T_g \leq 40^\circ$ as determined by the differential heat anal., and having refractory index ≥ 1.5 . Thus, styrene, Bu acrylate, and bisphenol A derivative I were subjected to photocopolymer. and made into intraocular lenses, which are foldable and which can be inserted in to eyes through a smaller cut.

IT 160605-82-3P

(manufacture of intraocular lenses with copolymers)

RN 160605-82-3 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with ethenylbenzene and α, α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

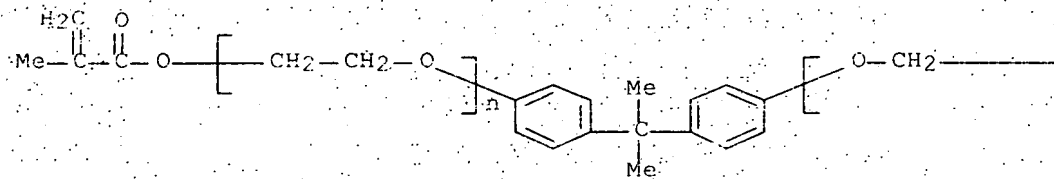
CM 1

CRN 41637-38-1

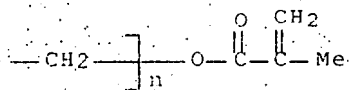
CMF (C2 H4 O) n (C2 H4 O) n C23 H24 O4

CCI PMS

PAGE 1-A



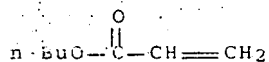
PAGE 1-B



CM 2

CRN 141-32-2

CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8

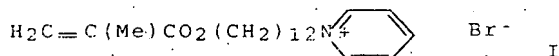
 $\text{H}_2\text{C}=\text{CH}-\text{Ph}$

IC ICM A61L027-00
 ICS A61F002-16; C08F212-06; C08F220-18
 CC 63-7 (Pharmaceuticals)
 Section cross-reference(s): 38
 IT Lenses
 (intraocular, manufacture of intraocular lenses with copolymers)
 IT 79-10-7DP, Acrylic acid, copolymers 79-41-4DP, Methacrylic acid,
 copolymers 80-05-7DP, Bisphenol A, derivs., copolymers 100-42-5DP,
 Styrene, copolymers 160605-82-3P
 (manufacture of intraocular lenses with copolymers)

L24 ANSWER 41 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1993:525251 HCAPLUS Full-text
 DOCUMENT NUMBER: 119:125251
 TITLE: Antimicrobial polymerizable composition, the
 polymer and article obtained from the same
 INVENTOR(S): Imazato, Satoshi; Torii, Mitsuo; Tsuchitani,
 Yasuhiko; Nishida, Koji; Yamauchi, Junichi
 PATENT ASSIGNEE(S): Kuraray Co., Ltd., Japan
 SOURCE: Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 537774	A1	19930421	EP 1992-117741	19921016
EP 537774	B1	19980107		
F: DE, FR, GB, IT, NL				
JP 06009725	A	19940118	JP 1992-274577	19921013
JP 3357094	B2	20021216		
US 5408022	A	19950418	US 1992-362736	19921019
US 5494987	A	19960227	US 1995-271369	19950111
PRIORITY APPLN. INFO.: JP 1991-299958 A 19911018				
US 1992-362736 A1 19921019				

ED Entered STN: 18 Sep 1993
 GI



AB A polymer having permanent antimicrobial property is prepared from an ethylenically unsatd. monomer, a specific monomer having antimicrobial activity, and a polymerization initiator. A dental composite was prepared from 17 parts of a mixture containing Bis-GMA 70, triethylene glycol dimethacrylate 20, pyridinyl group-containing methacrylate (I) 2, camphorquinone 1, and dimethylaminoethyl methacrylate 2 parts and 83 parts of a silane-treated quartz. Bactericidal activity of the composite was in vitro tested against *Streptococcus mutans*.

IT 148753-81-5P 148753-83-7P 148753-85-9P
148753-87-1P 148753-69-3P 148779-55-9P

(preparation and antimicrobial activity of, for dental and medical goods)

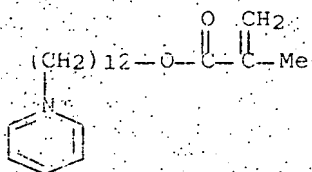
RN 148753-81-5 HCAPLUS

CN Pyridinium, 1-[12-[(2-methyl-1-oxo-2-propenyl)oxy]dodecyl], bromide, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1,2-ethanediylbis(oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 148753-80-4

CMF C21 H34 N O2 Br

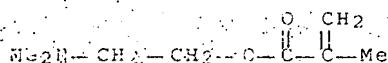


Br⁻

CM 2

CRN 2867-47-2

CMF C8 H15 N O2

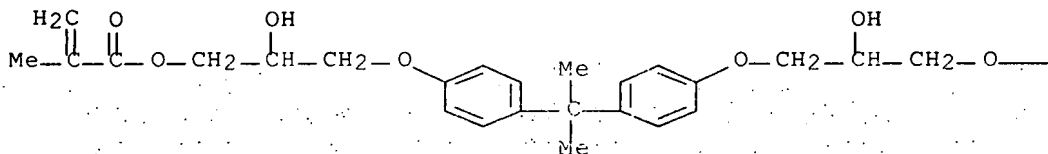


CM 3

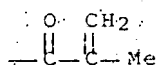
CRN 1565-94-2

CMF C29 H36 O8

PAGE 1-A



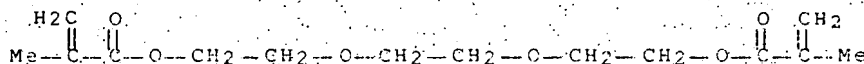
PAGE 1-B



CM 4

CRN 109-16-0

CMF C14 H22 O6



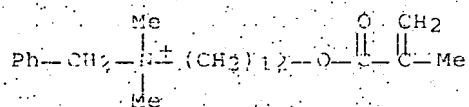
RN 148753-82-7 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[12-[(2-methyl-1-oxo-2-propenyl)oxy]dodecyl]-, bromide, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate; 1,2-ethanediylbis(oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate). (SCT) (CA INDEX NAME)

CM 1

CRN 148753-82-6

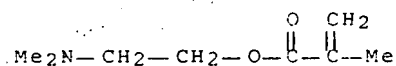
CMF C25 H42 N O2 Br

● Br⁻

CM 2

CRN 2867-47-2

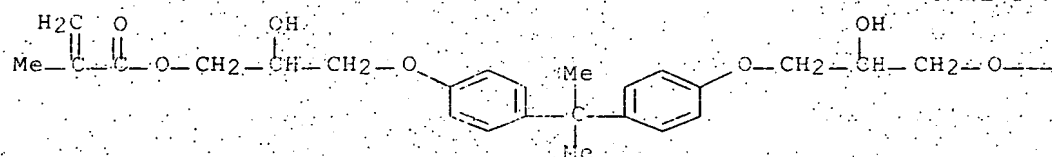
CMF C8 H15 N O2



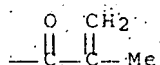
CM 3

CRN 1565-94-2

CMF C29 H36 O8



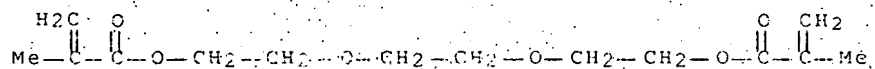
PAGE 1-B



CM 4

CRN 109-16-0

CMF C14 H22 O6



RN 148753-85-2 RCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) and 2-[4-(2-propylpentyl)-1-

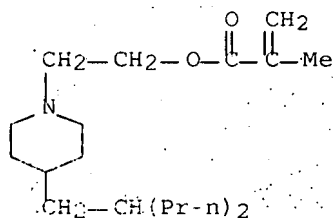
10/549,696

piperidinylethyl 2-methyl-2-propenoate hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 148753-84-8

CMF C19 H35 N O2 C1 H

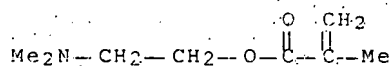


● HCl

CM 2

CRN 2867-47-2

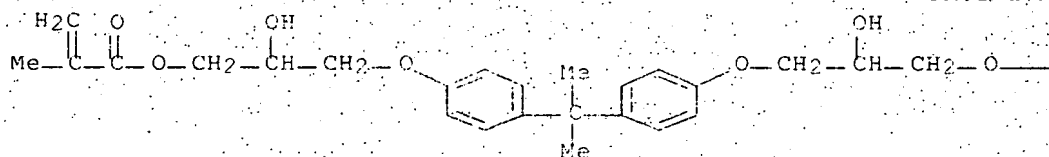
CMF C8 H15 N O2



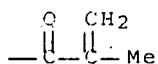
CM 3

CRN 1565-94-2

CMF C29 H36 O8



PAGE 1-A

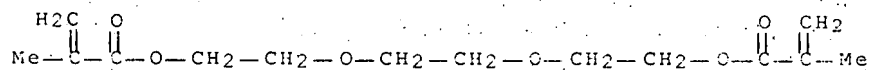


PAGE 1-B

CM 4

CRN 109-16-0

CMF C14 H22 O6



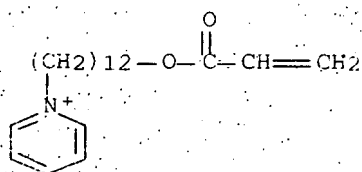
RN 148753-87-1 HCAPLUS

CN Pyridinium, 1-[12-[(1-oxo-2-propenyl)oxy]dodecyl]-, bromide, polymer
 with 2-(dimethylamino)ethyl 2-methyl-2-propenoate,
 1,2-ethanediylbis(oxy-2,1-ethenediyl) bis(2-methyl-2-propenoate) and
 (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]
 bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 148753-86-0

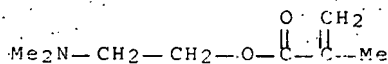
CMF C20 H32 N O2 . Br

⊕ Br⁻

CM 2

CRN 2367-47-2

CMF C8 H15 N O2

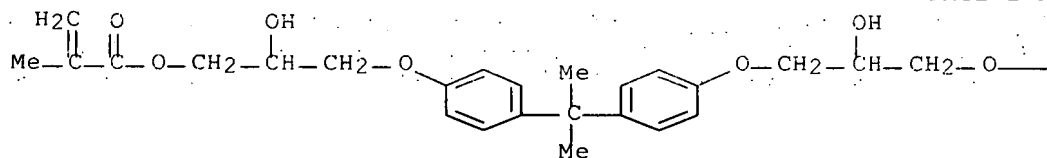


CM 3

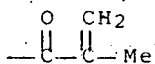
CRN 1565-94-2

CMF C29 H36 O8

PAGE 1-A



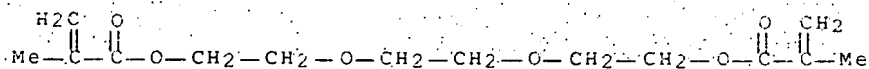
PAGE 1-B



CM 4

CRN 109-16-0

CMF C14 H22 O6



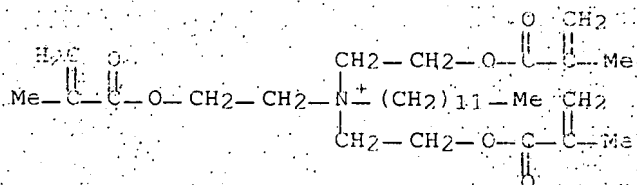
RN 148753-89-3 HCAPLUS

CN 1-Dodecanaminium, N,N,N-tris[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1,2-ethanediylbis(oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 148753-86-2

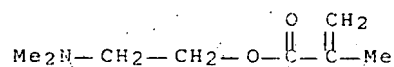
CMF C30 H52 N O6 . Cl

Cl⁻

CM 2

CRN 2867-47-2

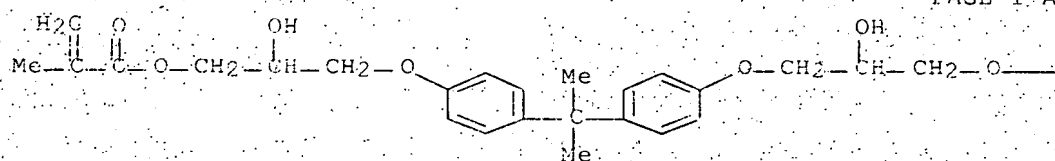
CMF C8 H15 N O2



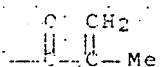
CM 3

CRN 1565-94-2

CMF C29 H36 O8



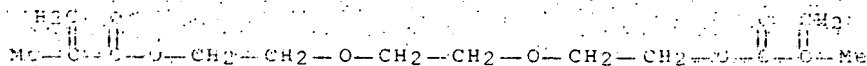
PAGE 1-B



CM 4

CRN 109-16-0

CMF C14 H22 O6



RN 118779-55-9 HCAPLUS

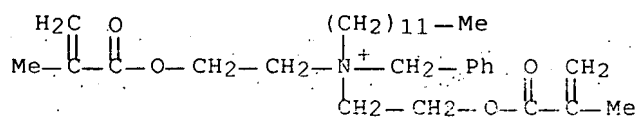
CN Benzenemethanaminium, N-dodecyl-N,N-bis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 1,2-ethanediylbis(oxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) and (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate)

(9CI) . (CA INDEX NAME)

CM . 1

CRN . 148779-54-8

CMF C31 H50 N 04 : C1

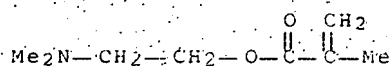


Cl -

CM 2.

CRN 2867-47-2

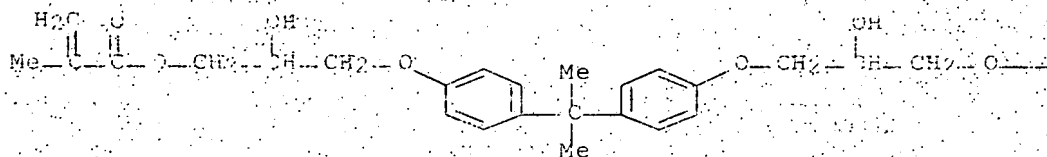
CMF C8 H15 N O2



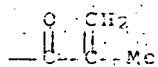
CM 3

CRN 1565-94-2

CMF C29 H36 O8



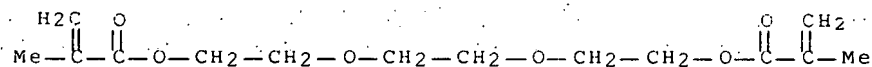
PAGE 1-A



PAGE 1 - D

CM 4

CRN 109-16-0
CMF C14 H22 O6



IC ICM A61K006-083
ICS A61L027-00; A61L029-00; A61L017-00; A61L015-24
CC 63-7 (Pharmaceuticals)
IT Lenses
(contact, soft, antimicrobial quaternary ammonium group-containing methacrylate copolymers for)
IT 148753-81-5P 148753-83-7P 148753-85-9P
148753-87-1P 148753-89-3P 148753-91-7P
148753-92-8P 148753-93-9P 148753-94-0P 148779-55-9P
149699-07-0P 150363-86-3P
(preparation and antimicrobial activity of, for dental and medical goods)

L24 ANSWER 42 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:28228 HCAPLUS Full-text
DOCUMENT NUMBER: 116:28228
TITLE: Contact lenses made of vinylsilane copolymers
INVENTOR(S): Gruber, Erich; Schaefer, Horst; Seiferling, Bernard; Mueller von der Haegen, Harro
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 455587	A1	19911106	EP 1991-810301	19910423
			<--	
EP 455587	B1	19950719		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ES 2074687	T3	19950916	ES 1991-810301	19910423
			<--	
US 5196493	A	19930323	US 1991-691626	19910425
			<--	
AU 9175970	A	19911107	AU 1991-75970	19910426
			<--	
AU 645800	B2	19940127		
IL 97978	A	19941229	IL 1991-97978	19910428
			<--	
CA 2041494	A1	19911103	CA 1991-2041494	19910430
			<--	
JP 05306309	A	19931119	JP 1991-128180	19910532
			<--	
US 5264878	A	19931123	US 1993-6085	19930119
			<--	
PRIORITY APPLN. INFO.:			CH 1990-1479	19900502

ED Entered STN: 24 Jan 1992

AB Contact lenses are made of polymers comprising: monovinylsilane 20-60, oligovinylsilane 1-25, fluorinated vinyl compound 10-55, hydrophobic vinyl compound with bulky hydrocarbon residue 3-30, hydrophilic vinyl compound 0-10, and addnl. crosslinking vinyl compds. 0-15%. A polymer was prepared from tris(trimethylsiloxy)silylpropylmethacrylate 30, 3,5-bis(3-methacroyloxypropyl)-3,5-bis(trimethylsiloxy)-1,1,1,7,7,7-hexamethyltetrasiloxane 10, 2,2,2-trifluoroethyl methacrylate 30 and 3,3,5-trimethylcyclohexyl methacrylate 30% using 0.1% benzoin ether photoinitiator. The lenses made of the polymers are O-permeable.

IT 138273-05-9P

(preparation of, for contact lenses)

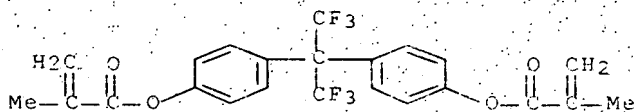
RN 138273-05-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with (1,1,3,3-tetramethyl-1,3-disiloxanediy)di-3,1-propanediyl bis(2-methyl-2-propenoate), 2,2,2-trifluoroethyl 2-methyl-2-propenoate, [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]di-4,1-phenylene bis(2-methyl-2-propenoate), 3-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyllpropyl 2-methyl-2-propenoate and 3,3,5-trimethylcyclohexyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 108050-42-6

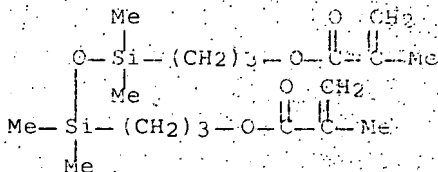
CMF C23 H18 F6 O4



CM 2

CRN 18547-93-8

CMF C18 H34 O5 Si2

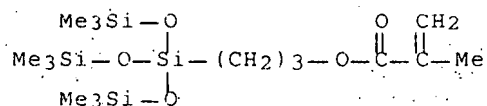


CM 3

CRN 17096-07-0

10/549,696

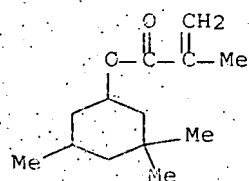
CMF C16 H38 O5 Si4



CM 4

CRN 7779-31-9

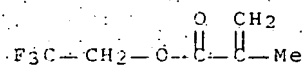
CMF C13 H22 O2



CM 5

CRN 352-87-4

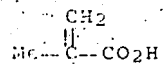
CMF C6 H7 F3 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



IC ICM C08F230-08

ICS C08F220-22; G02B001-04

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 38

II Lenses

(contact, vinylsilane-acrylate copolymers for)

IT 138251-33-9P 138251-34-0P 138251-36-2P 138251-38-4P
 138251-39-5P 138251-40-8P 138251-41-9P 138273-05-9P
 138273-06-0P 138273-07-1P

(preparation of, for contact lenses)

L24. ANSWER 43 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:520121 HCAPLUS Full-text

DOCUMENT NUMBER: 115:120121

TITLE: Manufacture of contact lenses that contain water

INVENTOR(S): Seshima, Yasuji; Ono, Takashi; Ito, Toshiyuki; Mitsuyama, Hideo

PATENT ASSIGNEE(S): Seed K. K., Japan

SOURCE: Jpn: Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03114019	A	19910515	JP 1989-252915	19890928
PRIORITY APPLN. INFO.:			JP 1989-252915	19890928

ED Entered STN: 23 Sep 1991

AB A soft contact lens, which contains water, is prepared from a copolymer consisting of methacrylic acid monoester of polyhydric alc. 50-90, and CR1R2[(p-C6H4)O2CNH(CH)nR3][(p-C6H4)O2CNH(CH2)nR4] (R1,R2 = F, C1-8 fluoroalkyl, alkyl; R3,R4 = acryloyloxy, methacryloyloxy, styryloxy; n = 1-5) 0.3-20% by weight. This polymeric material is machinable. Thus, 2-hydroxyethyl methacrylate, 2-hydroxypropyl methacrylate, N-pyrrolidone, and 2,2-bis[4-[N-(2-methacryloyloxyethyl)carbamoyl]phenyl]hexafluoropropane were mixed and polymerized in the presence of azobis(isobutyronitrile) and made into a contact lens.

IT 135803-15-5P

(preparation of, for contact lens)

RN 135803-15-5 HCAPLUS

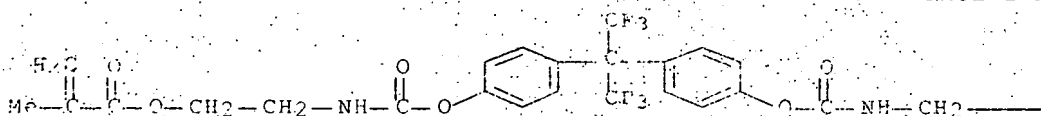
CM 2-Propenoic acid, 2-methyl-, [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]bis(4,1-phenyleneoxycarbonylimino-2,1-ethanediyl) ester, polymer with 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl 2-methyl-2-propenoate and 2-hydroxypropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

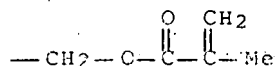
CM 1

CRM 133881-02-4

CME C29 H28 F6 N2 O8

PAGE 1-A.

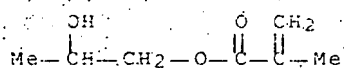




CM 2

CRN 923-26-2

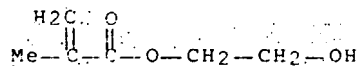
CME C7 H12 O3



CM 3

CRN 868-77-9

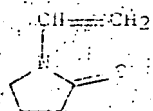
CME C6 H10 O3



CM 4

CRN 88-12-0

CME C5 H8 N O



IC ICM G02C007-04

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 37

IT Lenses

(contact, manufacture of, with acrylic acid derivative copolymers)

MT 135803-15-5P

(preparation of, for contact lens)

L24 ANSWER 44 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1990:637876 HCAPLUS Full-text
 DOCUMENT NUMBER: 113:237876
 TITLE: Manufacture of soft lens materials
 INVENTOR(S): Toyoshima, Nobuyuki; Hirashima, Atsushi; Shibata, Takanori
 PATENT ASSIGNEE(S): Menicon Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02079014	A	19900319	JP 1988-231054	19880914
JP 2588945	B2	19970312		
PRIORITY APPLN. INFO.:			JP 1988-231054	19880914

ED Entered STN: 22 Dec 1990

AB A soft optical lens is prepared from copolymers consisting of (1) F-containing (meth)acrylic acid ester, (2) alkyl (meth)acrylic acid ester (with glass transition temperature $\leq 40^\circ$ as homopolymer), and (3) F-containing (meth)acrylate polymer. The copolymers may contain a crosslinking agent. The lens may be contact lens, intracocular lens, or artificial cornea. Thus, a lens was prepared by copolymerizing 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10-heptadecafluorodecyl methacrylate 42.5, Bu acrylate 42.5, trifluoroethyl methacrylate-ethylene glycol dimethacrylate copolymer (a macromer) 15.0, and ethylene glycol dimethacrylate (a crosslinking agent) 0.5 parts by weight in the presence of initiator 0.5 part azobisdimethylvaleronitrile.

IT 130759-41-0P 130759-42-1P 130759-43-2P
 130759-44-3P
 (preparation of, for contact lenses)

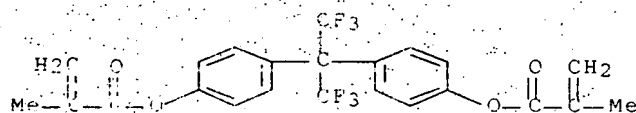
RN 130759-41-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-propenoate, trifluoroethyl 2-methyl-2-propenoate and [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]di-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

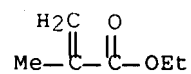
CRN 108050-42-6

CMF C23 H18 F6 O4



CM 2

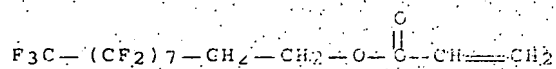
CRN 38785-10-3
 CMF C6 H7 F3 O2
 CCI IDS



3 (D1-F)

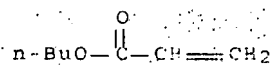
CM 3

CRN 27905-45-9
 CMF C13 H7 F17 O2



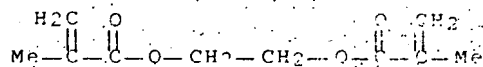
CM 4

CRN 141-32-2
 CMF C7 H12 O2



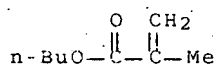
CM 5

CRN 97-90-5
 CMF C10 H14 O4



CM 6

CRN 97-88-1
 CMF C8 H14 O2



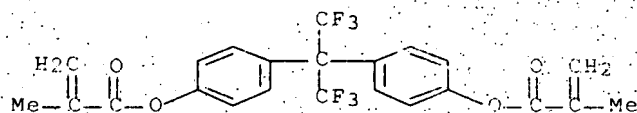
RN 130759-42-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, methyl 2-methyl-2-propenoate, trifluoroethyl 2-methyl-2-propenoate and [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]di-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 108050-42-6

CMF C23 H18 F6 O4

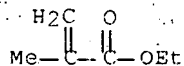


CM 2

CRN 38785-10-3

CMF C6 H7 F3 O2

CCI IDS

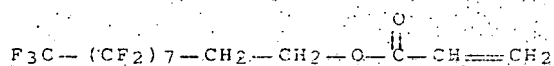


3 (D1-F)

CM 3

CRN 27905-45-9

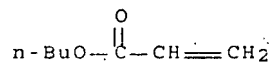
CMF C13 H7 F17 O2



CM 4

CRN 141-32-2

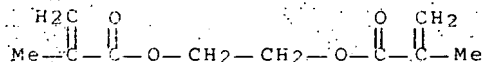
CMF C7 H12 O2



CM 5

CRN 97-90-5

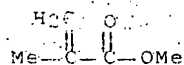
CMF C10 H14 O4



CM 6

CRN 80-62-6

CMF C5 H8 O2



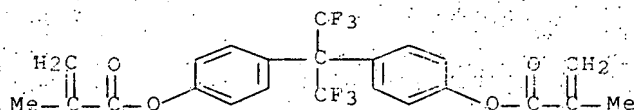
RN 130759-43-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, 2-propenoic acid, trifluoroethyl 2-methyl-2-propenoate and [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]di-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

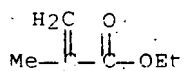
CRN 108050-42-6

CMF C23 H18 F6 O4



CM 2.

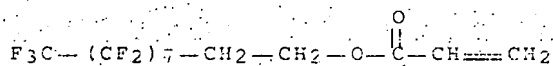
CRN 38785-10-3
 CMF C6 H7 F3 O2
 CCI IDS



3 (D1--F)

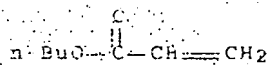
CM 3

CRN 27905-45-9
 CMF C13 H7 F17 O2



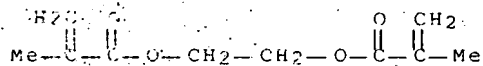
CM 4

CRN 141-32-2
 CMF C7 H12 O2



CM 5

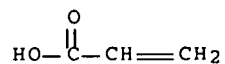
CRN 97-90-5
 CMF C10 H14 O4



CM 6

CRN 79-10-7

CMF C3 H4 O2



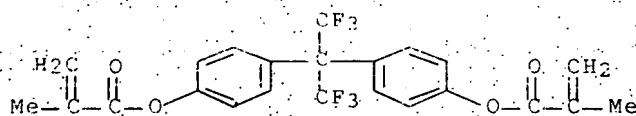
RN 130759-44-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with butyl 2-propenoate, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-propenoate, trifluoroethyl 2-methyl-2-propenoate and [2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]di-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 108050-42-6

CMF C23 H18 F6 O4

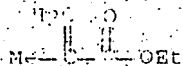


CM 2

CRN 38735-10-3

CMF C6 H7 F3 O2

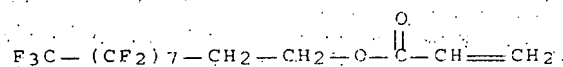
CCI IDS



CM 3

CRN 27905-45-9

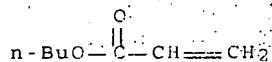
CMF C13 H7 F17 O2



CM 4

CRN 141-32-2

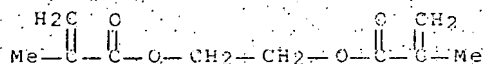
CMF C7 H12 O2



CM 5

CRN 97-90-5

CMF C10 H14 O4



IC ICM G02C007-04

ICS C06F220-12; C08F220-22; C08F299-00

CC 63-7 (Pharmaceuticals)

Section cross-reference(s): 37

IT Lenses

(contact, manufacture of, fluorine-containing acrylic copolymers for)

IT 130759-38-5P 130759-39-6P 130759-40-9P 130759-41-0P

130759-42-1P 130759-43-2P 130759-44-3P

130759-45-4P

(preparation of, for contact lenses)

B24 ANSWER 45 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1987:38506 HCAPLUS Full-text

DOCUMENT NUMBER: 106:38506

TITLE: Contact lens containing a high concentration of water

INVENTOR(S): Tarumi, Jiro; Komiya, Shigeo; Sawamoto, Takeyuki

PATENT ASSIGNEE(S): Hoya Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

JP 61166516

A

19860728

JP 1985-5789

19850118

<--

JP 08033528

B

19960329

PRIORITY APPLN. INFO.:

JP 1985-5789

19850118

<--

ED Entered STN: 07 Feb 1987

AB A contact lens with >60% water-absorbability is prepared using copolymers consisting of dimethylacrylamide 50-85, at least one hydrophobic monomethacrylate 15-50, and a crosslinking agent 0.1-3.0% by weight. The crosslinking agent is selected from 5 aliphatic compds. such as CH₂:CXCO₂(CH₂CH₂O)aOCCX:CH₂ where X = H or Me and a = 2-4. Thus, dimethylacrylamide 60, Me methacrylate 40, triethylene glycol dimethacrylate 0.28, and azobis(isobutylnitrile) 0.05 parts by weight were mixed, poured into a mold, and heated 24 h at 50-115° to give a copolymer. A contact lens was made from the copolymer, and the water-absorbability was found to be 71.5%.

IT 106128-05-6 106128-08-9 106128-10-3
106190-76-5

(contact lens preparation from)

RN 106128-05-6 HCAPLUS

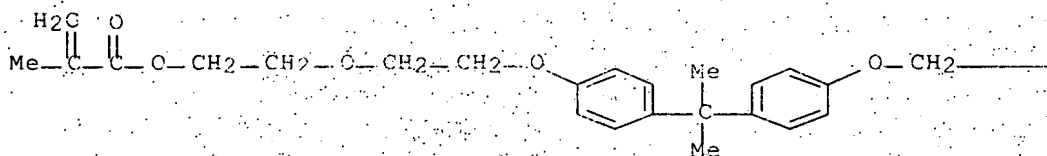
CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediybis(oxy-2,1-ethanediy) ester, polymer with butyl 2-methyl-2-propenoate, cyclohexyl 2-methyl-2-propenoate, N,N-dimethyl-2-propenamide and (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyloxy-2,1-ethanediy) bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

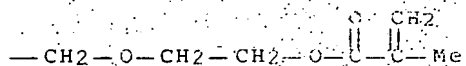
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



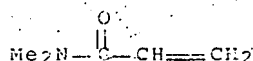
PAGE 1-B



CM 2

CRN 2680-03-7

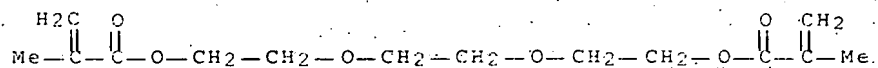
CMF C5 H9 N O



CM 3

CRN 109-16-0

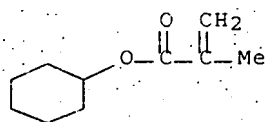
CMF C14 H22 O6



CM 4

CRN 101-43-9

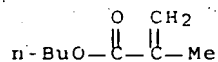
CMF C10 H16 O2



CM 5

CRN 97-88-1

CMF C8 H14 O2



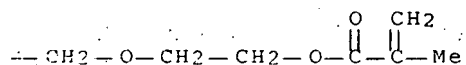
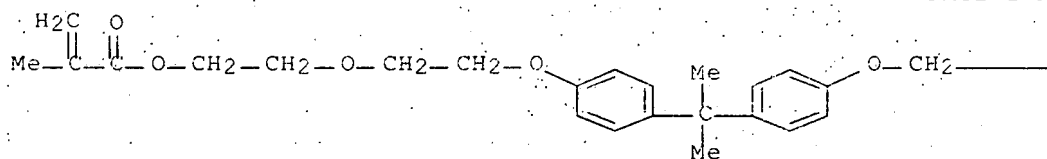
RN 106128-08-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanedioxy-2,1-ethanediyl) ester, polymer with N,N-dimethyl-2-propenamide and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

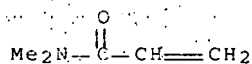
CMF C31 H40 O6



CM 2

CRN 2680-03-7

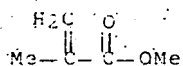
CMF C5 H9 N O



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 106128-10-3 HCAPLUS

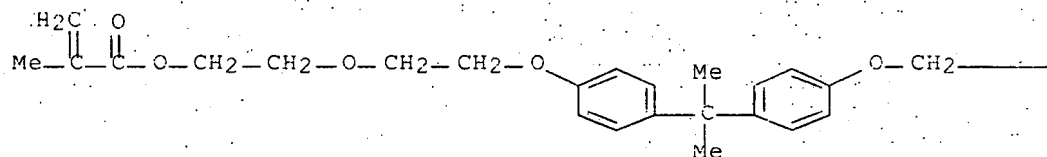
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with butyl 2-methyl-2-propenoate and N,N dimethyl 2 propenamide (9CI) (CA INDEX NAME)

CM 1

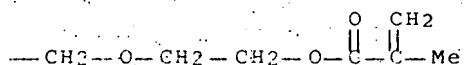
CRN 56744-60-6

CMF C31 H40 O8

PAGE 1-A



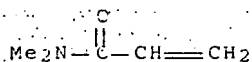
PAGE 1-B



CM 2

CRN 2680-03-7

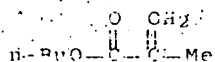
CMF C5 H9 N O



CM 3

CRN 97-88-1

CMF C8 H14 O2



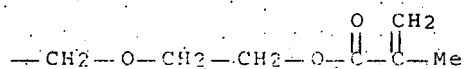
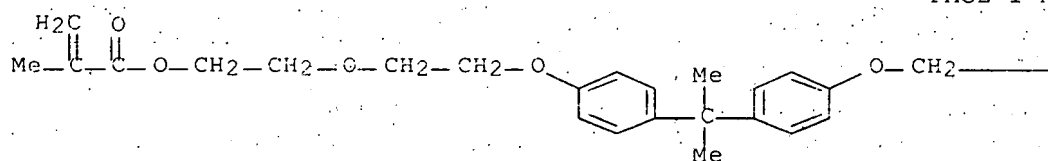
RN 106190-76-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediylbis(oxy-2,1-ethanediyl) ester, polymer with cyclohexyl 2-methyl-3-propenoate, N,N-dimethyl-2-propenamide, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] bis(2-methyl-2-propenoate) and (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 56744-60-6

CMF C31 H40 O8

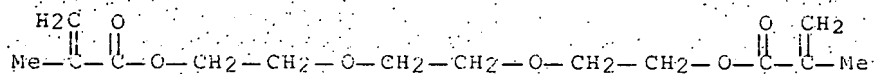


CM 2

CRN 51247-87-1

CMF C17 H28 O6

CCI IDS

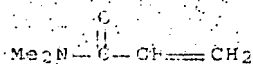


3 (D1-Me)

CM 3

CRN 2580-03-7

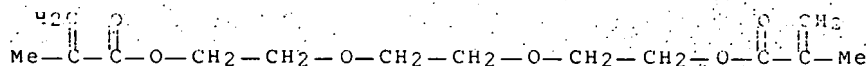
CMF C5 H9 N O



CM 4

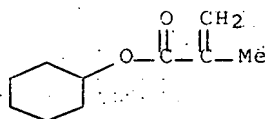
CRN 109-16-0

CMF C14 H22 O6



CM 5

CRN 101-43-9
CMF C10 H16 O2

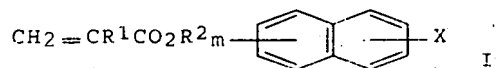


IC ICM G02C007-04
ICA C08F220-56
CC 63-7 (Pharmaceuticals)
IT Lenses
(contact, preparation of, from acrylic polymers)
IT 54116-21-1 106128-04-5 106128-05-6 106128-06-7
106128-07-8 106128-08-9 106128-09-0 106128-10-3
106190-74-3 106190-75-4 106190-76-5
(contact lens preparation from)

L24 ANSWER 46 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:154833 HCAPLUS Full-text
DOCUMENT NUMBER: 102:154833
TITLE: Acrylic naphthalene derivatives, and polymerizable
composition containing them and polymer for
organic glasses.
INVENTOR(S): Yoshida, Haruo; Tagoshi, Hirotaka
PATENT ASSIGNEE(S): Showa Denko K. K., Japan
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 126397	A2	19841128	EP 1984-105367	19840511
EP 126397	A3	19861120		
EP 126397	B1	19890906		
R: BE, DE, FR, GB, IT				
JP 59216246	A	19841206	JP 1983-37515	19830520
JP 63015257	B	19880404		
JP 60001213	A	19850107	JP 1983-107952	19830617
AU 8428377	A	19841122	AU 1984-28377	19840518
AU 581172	B2	19890216		
PRIORITY APPLN. INFO.			JP 1983-97545	A 19830520
			JP 1983-107952	A 19830617

OTHER SOURCE(S): MARPAT 102:154833
 ED Entered STN: 04 May 1985
 GI



AB Curable monomers I [$\text{R}^1 = \text{H}$ or Me , $\text{R}^2 = \text{CH}_2\text{CH}_2\text{O}$, CHMeCH_2O , or $\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{O}$, $\text{X} = \text{H}$, Cl , Br , Me , MeO , Ph , or PhO , and $m = 1-3$] are prepared for use in polymerizable compns. for preparation of organic glasses, especially eyeglass lenses. The monomers have a high refractive index, high b.p., are nontoxic, easily handled, good compatibility with other monomers and excellent curability. The I monomers are combined with other acrylic monomers for preparation of the polymers. α -(β -Acryloyloxyethoxy)naphthalene (II) [95358-30-8] was prepared from α -(β -hydroxyethoxy)naphthalene [711-82-0] and acrylic acid [79-10-7]. Lenses were prepared from a polymer obtained by reaction of II, dipentaerythritol hexacrylate, 2-benzoyl-2-hydroxypropane, Ph_3P as yellowing preventing agent, and 2-(2-hydroxy-5-methylphenyl)benzotriazole as UV absorber.

IT 95358-31-9P 95358-32-0P

(preparation of, for contact lenses)

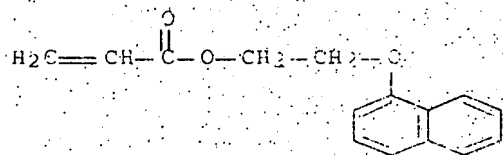
RN 95358-31-9 HCAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) di-2-propenoate and 2-(1-naphthalenyloxy)ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 95358-30-8

CMF C15 H14 O3

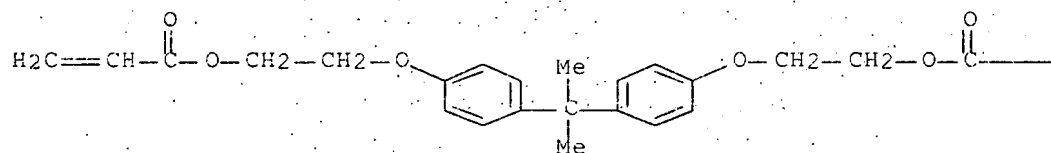


CM 2

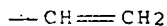
CRN 24447-73-7

CMF C25 H28 O6

PAGE 1-A



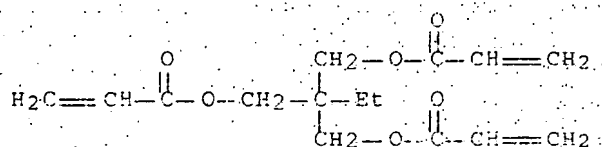
PAGE 1-B



CM 3

CRN 15625-89-5

CMF C15 H20 O6



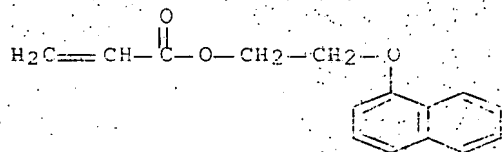
RN 95358-32-0 HCAPLUS

CN 2-Propenoic acid, [(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester, polymer with 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 2-(1-naphthalenyloxy)ethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

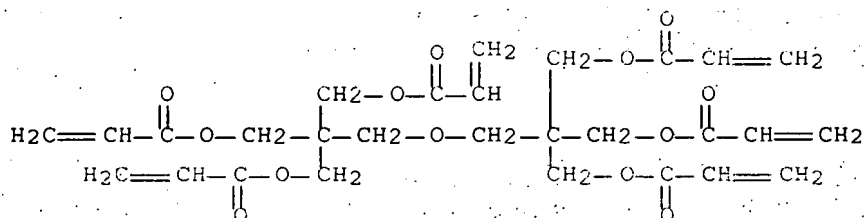
CRN 95358-30-8

CMF C15 H14 O3



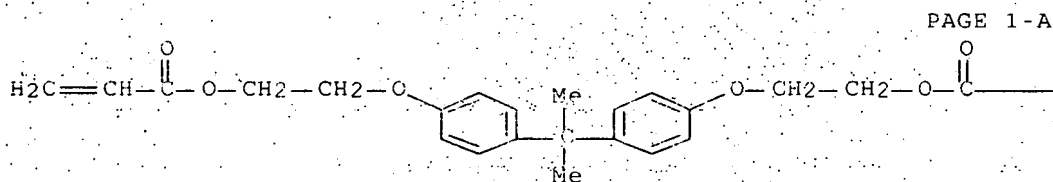
CM 2

CRN 29570-58-9
CMF C28 H34 O13



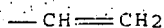
CM 3

CRN 24447-78-7
CMF C25 H28 O6



PAGE 1-A

PAGE 1-B



IC C07C069-54; C08F220-30
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 37
IT Lenses
(eyeglass, naphthalene-containing acrylic monomers for polymerizable compns. for)
IT 95358-29-5P 95358-31-9P 95358-32-3P 95358-33-1P
95358-34-2P
(preparation of, for contact lenses)

L24 ANSWER 47 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:56891 HCAPLUS Fall-text
DOCUMENT NUMBER: 100:56891
TITLE: Water-containing contact lenses with high oxygen permeability
PATENT ASSIGNEE(S): Toyo Contact Lens Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58176618	A	19831017	JP 1982-60179	19820410
JP 62033572	B	19870721		
PRIORITY APPLN. INFO.:			JP 1982-60179	19820410

ED Entered STN: 12 May 1984

AB Water-containing contact lenses with high O permeability are prepared from hydrophilic monomers, hydrophobic monomers and derivs. of the ketalized polyhydric alcs. HOCH₂(CHOH)nCH₂OH (n = 1-5) and subjected to acid treatment. Thus, 2,3-O-isopropylideneglycerol methacrylate, Me methacrylate and N-vinylpyrrolidone were copolymd. and fabricated into contact lenses, which were treated with 2N HCl for 24 h and soaked in distilled H₂O for 15 min, in 0.5% Na₂CO₃ for 30 min and again in distilled H₂O for 15 min. The treated lenses were boiled in 0.9% saline for 1 h to give a product with an O permeability of 2.45 + 10⁻¹⁰ mL.cm/cm².s. mm Hg.

IT 85266-47-3P 85266-56-4P 85266-57-5P

(preparation of, for contact lenses with high oxygen permeability and water content)

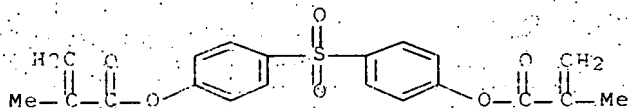
RN 85266-47-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (2,2-dimethyl-1,3-dioxolan-4-yl)methyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and sulfonyldi-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 34049-61-1

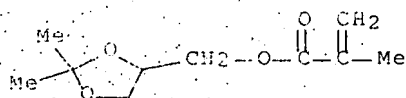
CMF C20 H18 O6 S



CM 2

CRN 7098-80-8

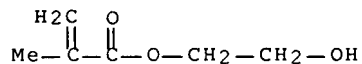
CMF C10 H16 O4



CM 3

CRN 868-77-9

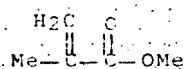
CMF C6 H10 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



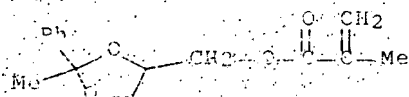
RN 85266-56-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 2-hydroxyethyl 2-methyl-2-propenoate, (2-methyl-2-phenyl-1,3-dioxolan-
 4-yl)methyl 2-methyl-2-propenoate and sulfonyldi-4,1-phenylene
 bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 85266-55-3

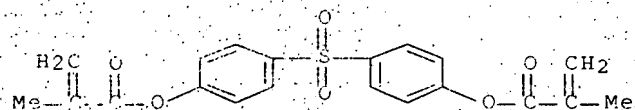
CMF C15 H18 O4



CM 2

CRN 34049-61-1

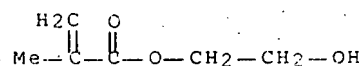
CMF C20 H18 O6 S



CM 3

CRN 868-77-9

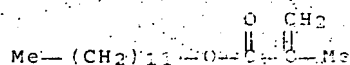
CMF C6 H10 O3



CM 4

CRN 142-90-5

CMF C16 H30 O2



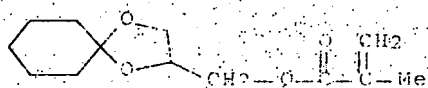
RN 85266-57-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,4-dioxaspiro[4.5]dec-2-ylmethyl ester,
polymer with dodecyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and sulfonyldi-4,1-phenylene
bis(2-methyl-2-propenoate) (9CL) (CA INDEX NAME)

CM 1

CRN 85266-53-1

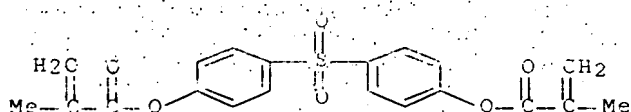
CMF C13 H20 O4



CM 2

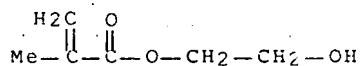
CRN 34049-61-1

CMF C20 H18 O6 S



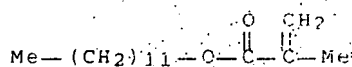
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 142-90-5
CMF C16 H30 O2



IC G02C007-04; C08F008-12; C08F220-10; C08F220-28
CC 63-7 (Pharmaceuticals)
IT Lenses

(contact, acrylic polymers for, with high oxygen permeability and water content)

IT 85266-44-0P 85266-45-1P 85266-46-2P 85266-47-3P
85266-48-4P 85266-51-9P 85266-52-0P 85266-54-2P
85266-56-4P 85266-57-5P 85266-59-7P 85266-60-0P
85266-61-1P 85266-63-3P 85266-64-4P 85266-65-5P 85266-66-6P
85266-67-7P 85266-68-8P 88503-89-3P 88503-90-6P 88503-91-7P
88503-92-8P 88503-93-9P 88503-94-0P 88503-95-1P 88503-96-2P
88503-97-3P 88503-98-4P 88513-81-9P

(preparation of, for contact lenses with high oxygen permeability and water content)

L24 ANSWER 48 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:204457 HCAPLUS Full-text

DOCUMENT NUMBER: 98:204457

TITLE: Contact lenses with high oxygen permeability

PATENT ASSIGNEE(S): Roya Lens Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57162718	A	19821110	JP 1981-68477	19810507

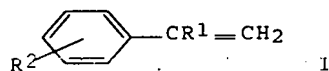
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JP 62039725
PRIORITY APPLN. INFO.:

B 19870825

JP 1981-68477

19810507

ED Entered STN: 12 May 1984
GI

AB Contact lenses with a high O permeability are prepared from copolymers of bisphenol A dimethacrylate and I ($R_1 = H$ or Me; $R_2 = H, Me, Et, Pr, Bu, MeO, Cl, NO_2, OH$ or NH_2). Thus, 95 parts styrene and 5 parts bisphenol A dimethacrylate were copolymerized in the presence of Bz2O2 to form a copolymer [25190-79-8] for use in manufacture of contact lenses.

IT 25190-79-8P 73548-25-1P 85756-94-1P
85756-95-2P

(preparation of; for contact lenses)

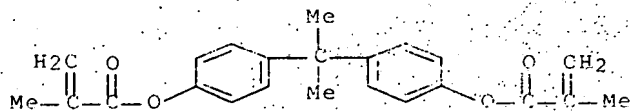
RN 25190-79-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)di-4,1-phenylene ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 3253-39-2

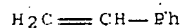
CMF C23 H24 O4



CM 2

CRN 100-42-8

CMF C8 H8



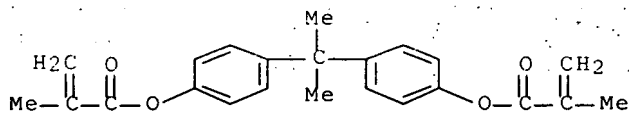
RN 73548-25-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)di-4,1-phenylene ester, polymer with 1-chloro-2-ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

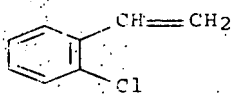
10/549,696

CRN 3253-39-2
CMF C23 H24 O4



CM 2

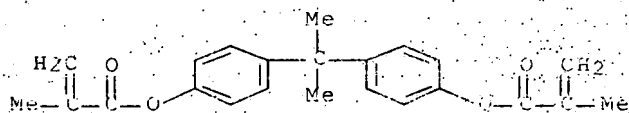
CRN 2039-87-4
CMF C8 H7 Cl



RN 85756-94-1 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)di-4,1-phenylene
ester, polymer with 1-ethenyl-4-methylbenzene (9CI) (CA INDEX NAME)

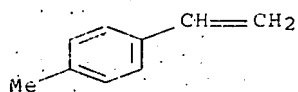
CM 1

CRN 3253-39-2
CMF C23 H24 O4



CM 2

CRN 622-97-9
CMF C9 H10



RN 85756-95-2 HCAPLUS

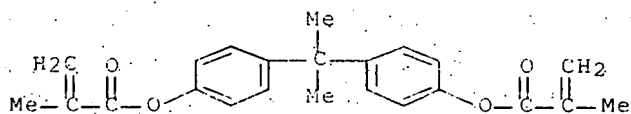
10/549,696

CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)di-4,1-phenylene ester, polymer with ethenylbenzene and 1-ethenyl-2-methylbenzene (9CI)
(CA INDEX NAME)

CM 1

CRN 3253-39-2

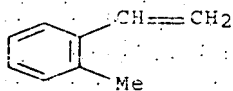
CMF C23 H24 O4



CM 2

CRN 611-15-4

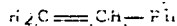
CMF C9 H10



CM 3

CRN 100-42-5

CMF C8 H8



IC G02C007-04; C08F212-04

ICI C08F212-04, C08F220-20

CC 63-7 (Pharmaceuticals)

IT Lenses

(contact, bisphenol methacrylate-styrene derivative polymers for)

YT 21160-79-8P 73548-25-1P 85756-94-1P

25716-95-2P

(preparation of, for contact lenses)

LE4 ANSWER 49 OF 49 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:149623 HCAPLUS Full-text

DOCUMENT NUMBER: 98:149623

TITLE: Water-absorbing contact lens

INVENTOR(S): Tanaka, Kyoichi; Kanome, Shinji; Nakajima, Tatsutoshi; Nakada, Zazuhiko; Toyoshima, Nobuyuki

PATENT ASSIGNEE(S): Toyo Contact Lens Co., Ltd., Japan
 SOURCE: Fr. Demande, 37 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2505055	A1	19821105	FR 1982-7595	19820430
			<--	
FR 2505055	E1	19860103		
JP 57181524	A	19821109	JP 1981-67485	19810501
			<--	
JP 58065411	A	19830419	JP 1981-165224	19811015
			<--	
AU 8282681	A	19821104	AU 1982-82681	19820416
			<--	
AU 550604	E2	19860327		
GB 2097952	A	19821110	GB 1982-11562	19820421
			<--	
GB 2097952	B	19850213		
DE 3215918	A1	19821202	DE 1982-3215918	19820429
			<--	
DE 3215918	C2	19860417		
PRIORITY APPLN. INFO:			JP 1981-67485	A 19810501
			<--	
			JP 1981-165224	A 19811015
			<--	

ED Entered STN: 12 May 1984

AB Contact lenses having water content sufficient to supply O to the eye cornea and excellent affinity for the eye tissues were prepared from copolymers containing glycidyl acrylates or methacrylates, e.g. isopropylidene-2,3-glycerol methacrylate (I) [7098-80-8]. I was prepared by treating 15 g glycidyl methacrylate [106-91-2] with 50 mL Me₂CO [67-64-1] in the presence of 100 ppm hydroquinone monomethyl ether and 0.1 g silicotungstic acid. isopropylidene-2,3-glycerol methacrylate-Me methacrylate-N-vinylpyrrolidone copolymer (II) [85266-44-0] was prepared by polymerizing a mixture of the corresponding monomers in the presence of azobisisobutyronitrile. II was shaped into contact lenses, the lenses were soaked successively in 2N HCl (24 h), H₂O (15 min), and 0.5% aqueous Na₂CO₃ (30 min), and then boiled for 1 h in physiologic saline solution to give a flexible product containing 60.2% H₂O and having an O permeability 1.86 ± 10^{-10} mL/cm/cm².5 mbar, a refractive index of 1.391, and visible ray transmission >90%.

IT 85266-47-3P 85266-56-4P 85266-57-5P
 (preparation of, for soft contact lenses)

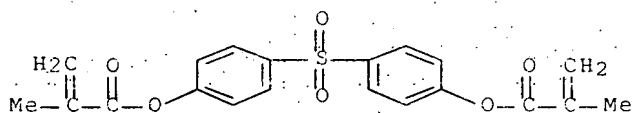
RN 85266-47-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, (2,2-dimethyl-1,3-dioxolan-4-yl)methyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and sulfonyldi-4,1-phenylene bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CPN 34049-61-1

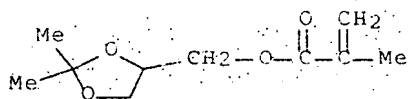
CMF C20 H18 O6 S



CM 2

CRN 7098-80-8

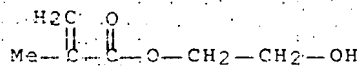
CMF C10 H16 O4



CM 3

CRN 868-77-9

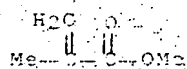
CMF C6 H10 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



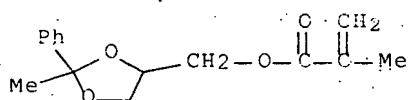
RN 85266-56-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with
 2-hydroxyethyl 2-methyl-2-propenoate, (2-methyl-2-phenyl-1,3-dioxolan-
 4-yl)methyl 2-methyl-2-propenoate and sulfonyldi-4,1-phenylene
 bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

CRN 85266-55-3

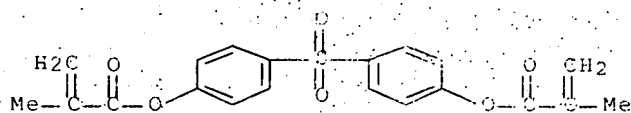
CMF C15 H18 O4



CM 2

CRN 34049-61-1

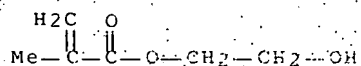
CMF C20 H18 O6 S



CM 3

CRN 868-77-9

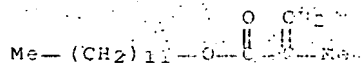
CMF C6 H10 O3



CM 4

CRN 142-90-5

CMF C16 H30 O2



RN 85266-57-5 HCAPLUS

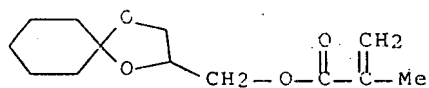
CN 2-Propenoic acid, 2-methyl-, 1,4-dioxaspiro[4.5]dec-2-ylmethyl ester,
polymer with dodecyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate and sulfonyldi-4,1-phenylene
bis(2-methyl-2-propenoate) (9CI) (CA INDEX NAME)

CM 1

10/549,696

CRN 85266-53-1

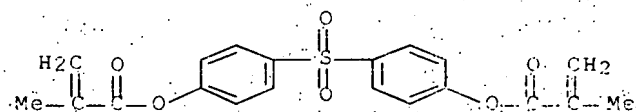
CMF C13 H20 O4



CM 2

CRN 34049-61-1

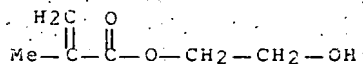
CMF C20 H18 O6 S



CM 3

CRN 868-77-9

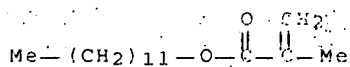
CMF C6 H10 O3



CM 4

CRN 142-90-5

CMF C16 H30 O2



IC G02B001-04; C08F220-02; C08F226-10; G02C007-04

CC 63-7 (Pharmaceuticals)

IT Lenses

(contact, soft, glycerol acrylate or methacrylate copolymers for, preparation of)

IT 78166-48-0P 85266-44-0P 85266-45-1P 85266-46-2P
85266-47-3P 85266-48-4P 85266-50-8P 85266-51-9P

10/549,696

85266-52-0P 85266-54-2P 85266-56-4P 85266-57-5P
85266-59-7P 85266-60-0P 85266-61-1P 85266-63-3P 85266-64-4P
85266-65-5P 85266-66-6P 85266-67-7P 85266-68-8P
(preparation of, for soft contact lenses)

=> d his.nofile

(FILE 'HOME' ENTERED AT 07:28:58 ON 30 AUG 2007)

FILE 'HCAPLUS' ENTERED AT 07:29:04 ON 30 AUG 2007

L1 1 SEA ABB=ON PLU=ON US20060182977/PN
SEL RN

FILE 'REGISTRY' ENTERED AT 07:29:18 ON 30 AUG 2007

L2 17 SEA ABB=ON PLU=ON (25068-38-6/BI OR 308283-10-5/BI OR
423125-70-6/BI OR 532384-77-3/BI OR 765929-30-4/BI OR
765929-31-5/BI OR 765929-32-6/BI OR 765929-33-7/BI OR
765929-34-8/BI OR 765929-35-9/BI OR 765929-36-0/BI OR
765929-37-1/BI OR 765929-39-3/BI OR 765929-40-6/BI OR
765929-41-7/BI OR 765943-97-3/BI OR 767330-18-7/BI)

L3 STR

L4 STR

L5 SCR 2043

L6 50 SEA SSS SAM L3 AND L4 AND L5

L7 9925 SEA SSS FUL L3 AND L4 AND L5

L8 11 SEA ABB=ON PLU=ON L7 AND L3
SAV L7 FRE696/A

FILE 'HCAPLUS' ENTERED AT 08:03:16 ON 30 AUG 2007

L9 1 SEA ABB=ON PLU=ON L8

L10 8034 SEA ABB=ON PLU=ON L7

FILE 'REGISTRY' ENTERED AT 08:03:36 ON 30 AUG 2007

L11 2321 SEA ABB=ON PLU=ON L7 AND 2/NC

L12 7695 SEA ABB=ON PLU=ON L7 AND 2-5/NC

L13 738 SEA ABB=ON PLU=ON L7 AND 1/NC

L14 9187 SEA ABB=ON PLU=ON L7 NOT L13

FILE 'HCAPLUS' ENTERED AT 08:05:51 ON 30 AUG 2007

L15 5589 SEA ABB=ON PLU=ON L14

L16 1 SEA ABB=ON PLU=ON L1 AND L15
E LENSES/CT

L17 21828 SEA ABB=ON PLU=ON LENSES+PFT,NT,OLD,NEW/CT
E PHOTOCHROMIC MATERIALS/CT

L18 5726 SEA ABB=ON PLU=ON "PHOTOCHROMIC MATERIALS"+PFT,NT,OLD,NEW
/CT
E PHOTOCHROMIC LENSES/CT

L19 414 SEA ABB=ON PLU=ON "PHOTOCHROMIC LENSES"+PFT,NT,OLD,NEW/CT

L20 692 SEA ABB=ON PLU=ON L15 AND (L17 OR L18 OR L19)

L21 156 SEA ABB=ON PLU=ON L20 AND PHARM?/SC, SX

L22 61 SEA ABB=ON PLU=ON L21 AND THU/RL

L23 1 SEA ABB=ON PLU=ON L22 AND L1

L24 49 SEA ABB=ON PLU=ON L22 AND (1840-2003)/PRY,AY,PY